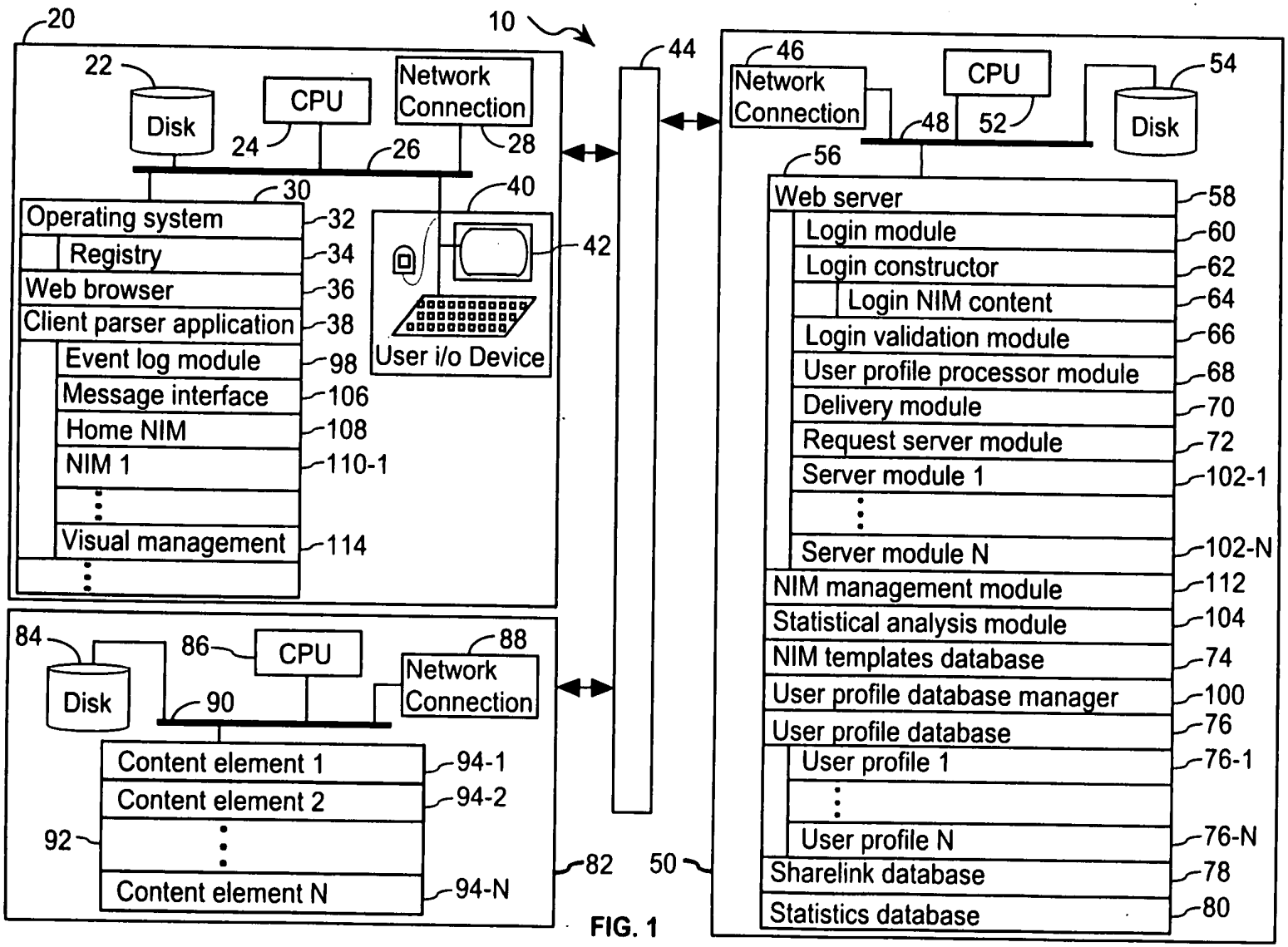
20
10
22
Disk
CPU
Network Connection
24
26
28
30
40
Operating system
32
Registry
34
Web browser
36
Client parser application
38
Event log module
98
Message interface
106
Home NIM
108
NIM 1
110-1
Visual management
114
42
User i/o Device
44
46
Network Connection
CPU
48
52
54
Disk
56
Web server
58
Login module
60
Login constructor
62
Login NIM content
64
Login validation module
66
User profile processor module
68
Delivery module
70
Request server module
72
Server module 1
102-1
Server module N
102-N
NIM management module
112
Statistical analysis module
104
NIM templates database
74
User profile database manager
100
User profile database
76
User profile 1
76-1
User profile N
76-N
Sharelink database
78
Statistics database
80
50
84
Disk
86
CPU
88
Network Connection
90
92
Content element 1
94-1
Content element 2
94-2
Content element N
94-N
82

FIG. 1

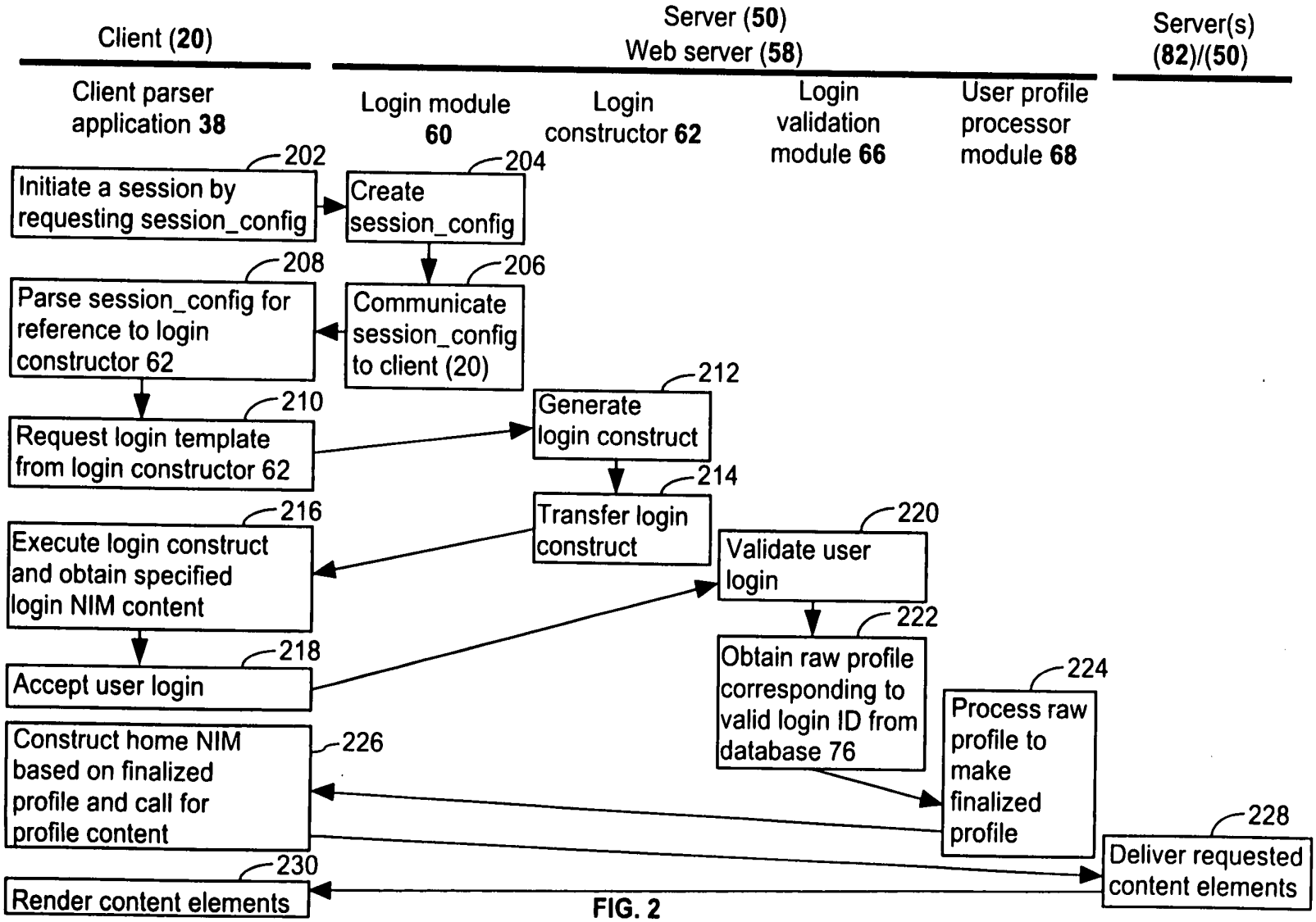
Client (20)
Server (50)
Web server (58)
Server(s)
(82)/(50)
Client parser application 38
Login module 60
Login constructor 62
Login validation module 66
User profile processor module 68
202
Initiate a session by requesting session_config
204
Create session_config
206
Communicate session_config to client (20)
208
Parse session_config for reference to login constructor 62
210
Request login template from login constructor 62
212
Generate login construct
214
Transfer login construct
216
Execute login construct and obtain specified login NIM content
218
Accept user login
220
Validate user login
222
Obtain raw profile corresponding to valid login ID from database 76
224
Process raw profile to make finalized profile
226
Construct home NIM based on finalized profile and call for profile content
228
Deliver requested content elements
230
Render content elements

FIG. 2

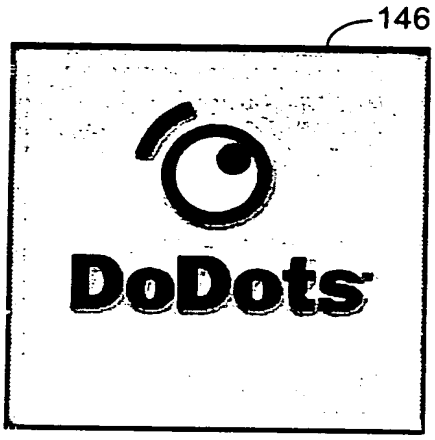
146
DoDots

FIG.3A

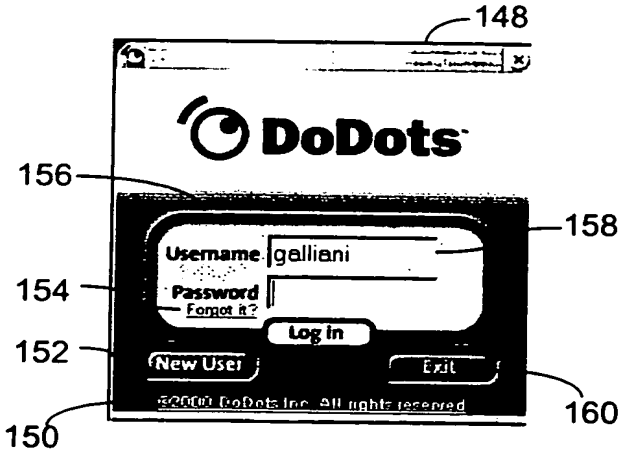
148
DoDots
156
158
Username galliani
154
Password
Forgot it?
Log in
152
New User
Exit
©2000 DoDots Inc. All rights reserved
150
160

FIG.3B

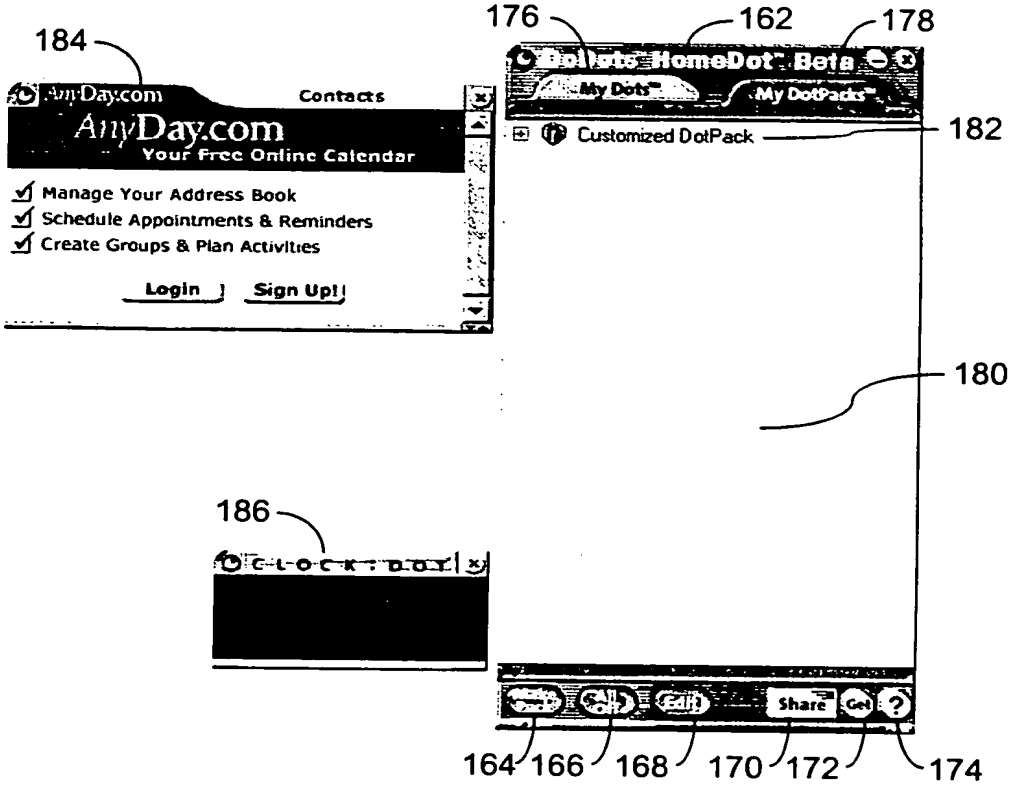

FIG. 4

09550825 - 052500

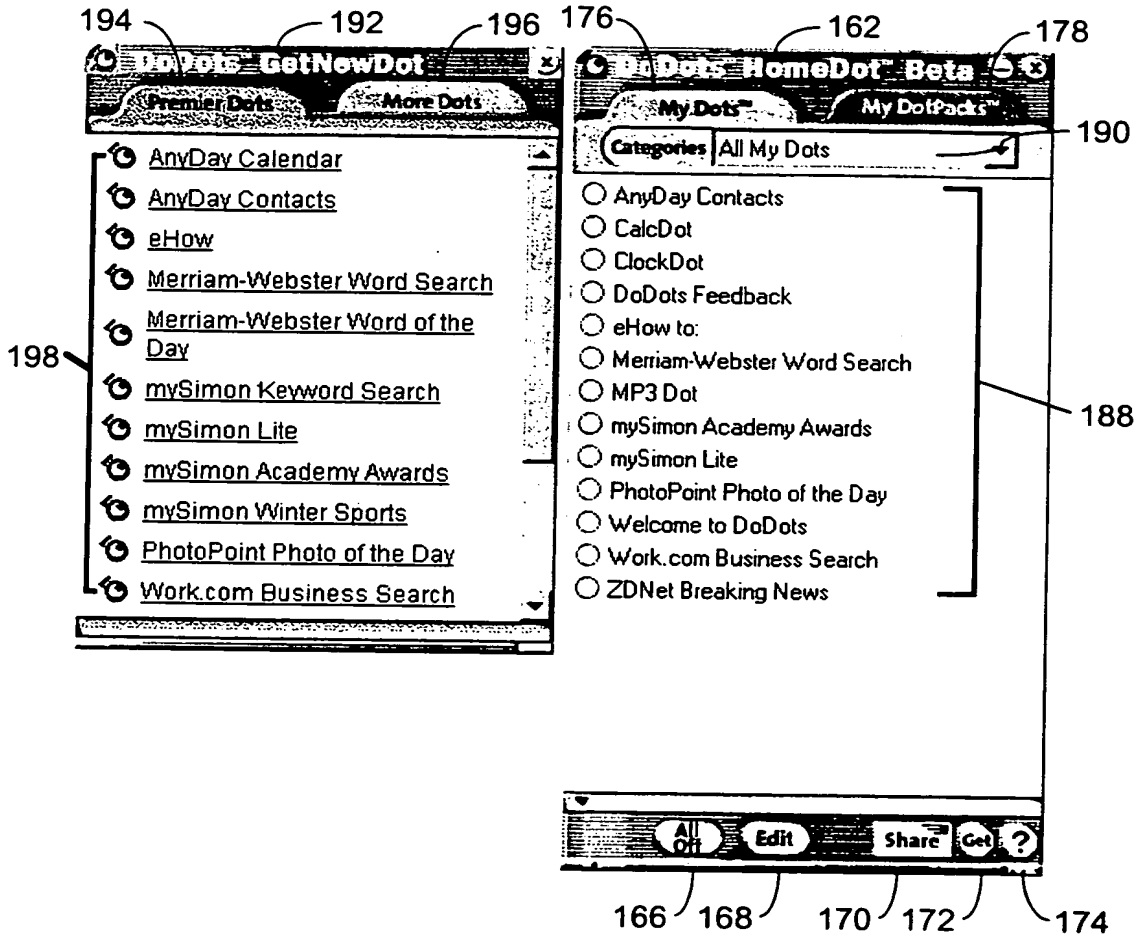
194
192
196
176
162
178
DoDots GetNowDot
Premier Dots
More Dots
AnyDay Calendar
AnyDay Contacts
eHow
Merriam-Webster Word Search
Merriam-Webster Word of the Day
mySimon Keyword Search
mySimon Lite
mySimon Academy Awards
mySimon Winter Sports
PhotoPoint Photo of the Day
Work.com Business Search
198
DoDots HomeDot Beta
My Dots
My DotPacks
Categories
All My Dots
190
AnyDay Contacts
CalcDot
ClockDot
DoDots Feedback
eHow to:
Merriam-Webster Word Search
MP3 Dot
mySimon Academy Awards
mySimon Lite
PhotoPoint Photo of the Day
Welcome to DoDots
Work.com Business Search
ZDNet Breaking News
188
All Off
Edit
Share
Get
?
166
168
170
172
174

FIG. 5

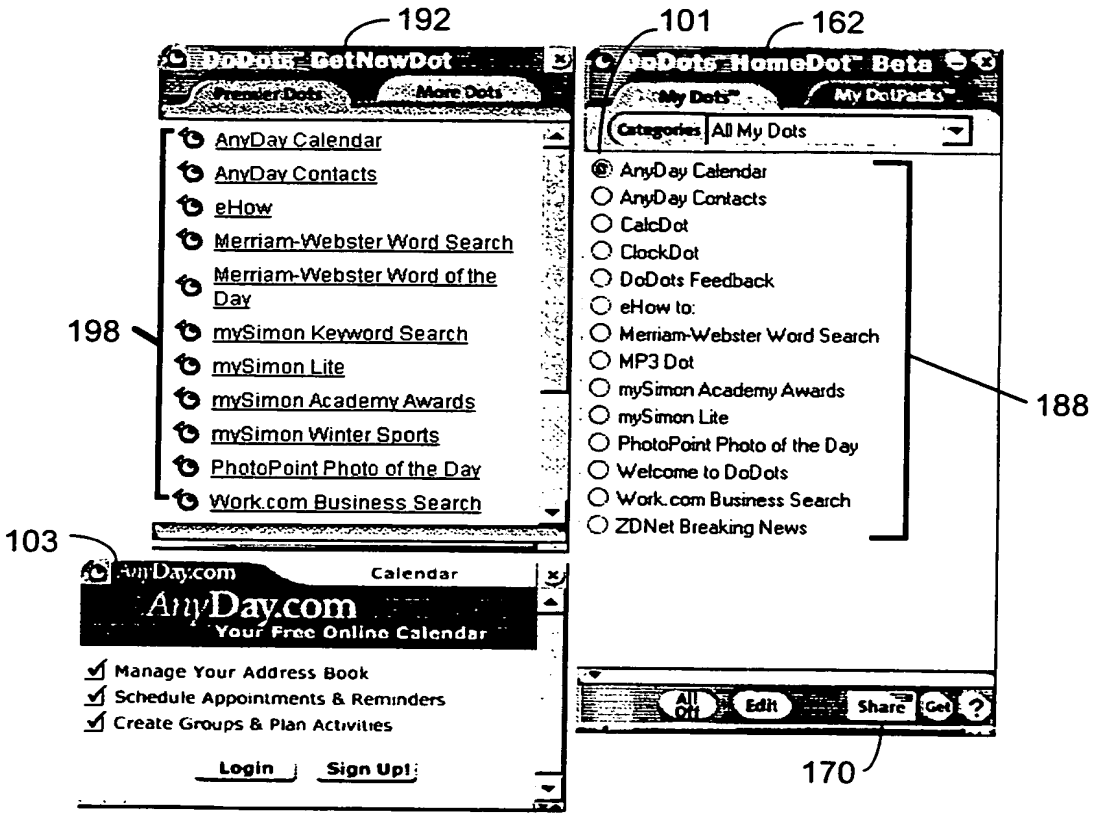
192
101
162
DoDots GetNewDot
DoDots HomeDot Beta
More Dots
My Dots
My DotPacks
Categories
All My Dots
AnyDay Calendar
AnyDay Contacts
eHow
Merriam-Webster Word Search
Merriam-Webster Word of the Day
mySimon Keyword Search
mySimon Lite
mySimon Academy Awards
mySimon Winter Sports
PhotoPoint Photo of the Day
Work.com Business Search
198
AnyDay Calendar
AnyDay Contacts
CalcDot
ClockDot
DoDots Feedback
eHow to:
Merriam-Webster Word Search
MP3 Dot
mySimon Academy Awards
mySimon Lite
PhotoPoint Photo of the Day
Welcome to DoDots
Work.com Business Search
ZDNet Breaking News
188
103
AnyDay.com
Calendar
AnyDay.com
Your Free Online Calendar
Manage Your Address Book
Schedule Appointments & Reminders
Create Groups & Plan Activities
Login
Sign Up!
All Off
Edit
Share
Get
170

FIG. 6

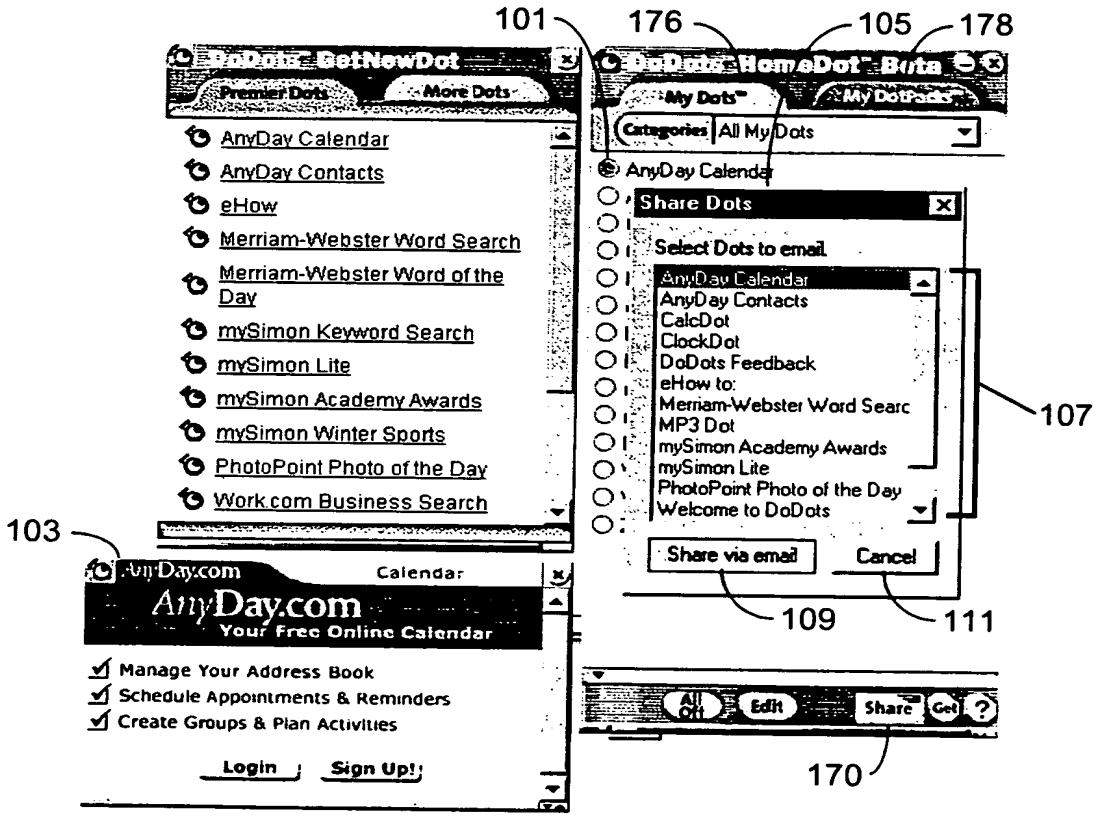
101
176
105
178
DoDots: GetNewDot
Premier Dots
More Dots
AnyDay Calendar
AnyDay Contacts
eHow
Merriam-Webster Word Search
Merriam-Webster Word of the Day
mySimon Keyword Search
mySimon Lite
mySimon Academy Awards
mySimon Winter Sports
PhotoPoint Photo of the Day
Work.com Business Search
DoDots: HomeDot™ Beta
My Dots™
My DotPacks
Categories
All My Dots
AnyDay Calendar
Share Dots
Select Dots to email
AnyDay Calendar
AnyDay Contacts
CalcDot
ClockDot
DoDots Feedback
eHow to:
Merriam-Webster Word Searc
MP3 Dot
mySimon Academy Awards
mySimon Lite
PhotoPoint Photo of the Day
Welcome to DoDots
107
103
AnyDay.com
Calendar
AnyDay.com
Your Free Online Calendar
Manage Your Address Book
Schedule Appointments & Reminders
Create Groups & Plan Activities
Login
Sign Up!
Share via email
Cancel
109
111
All On
Edit
Share
Get
170

FIG. 7

D95302US: 05/20/00

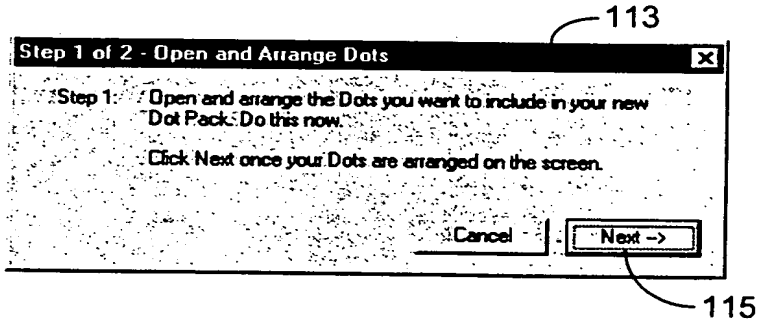

FIG. 8A

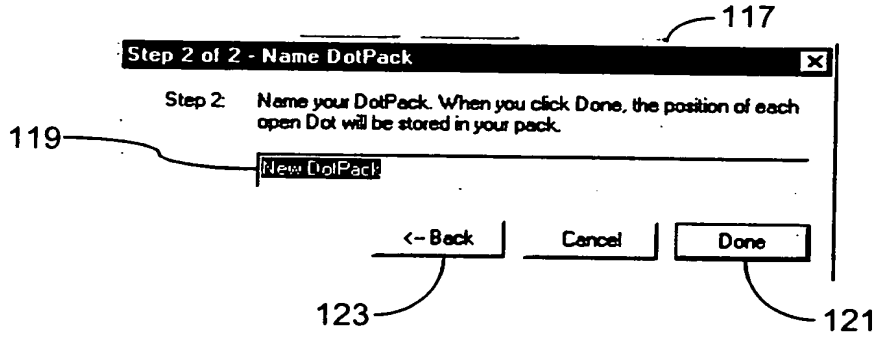

FIG. 8B

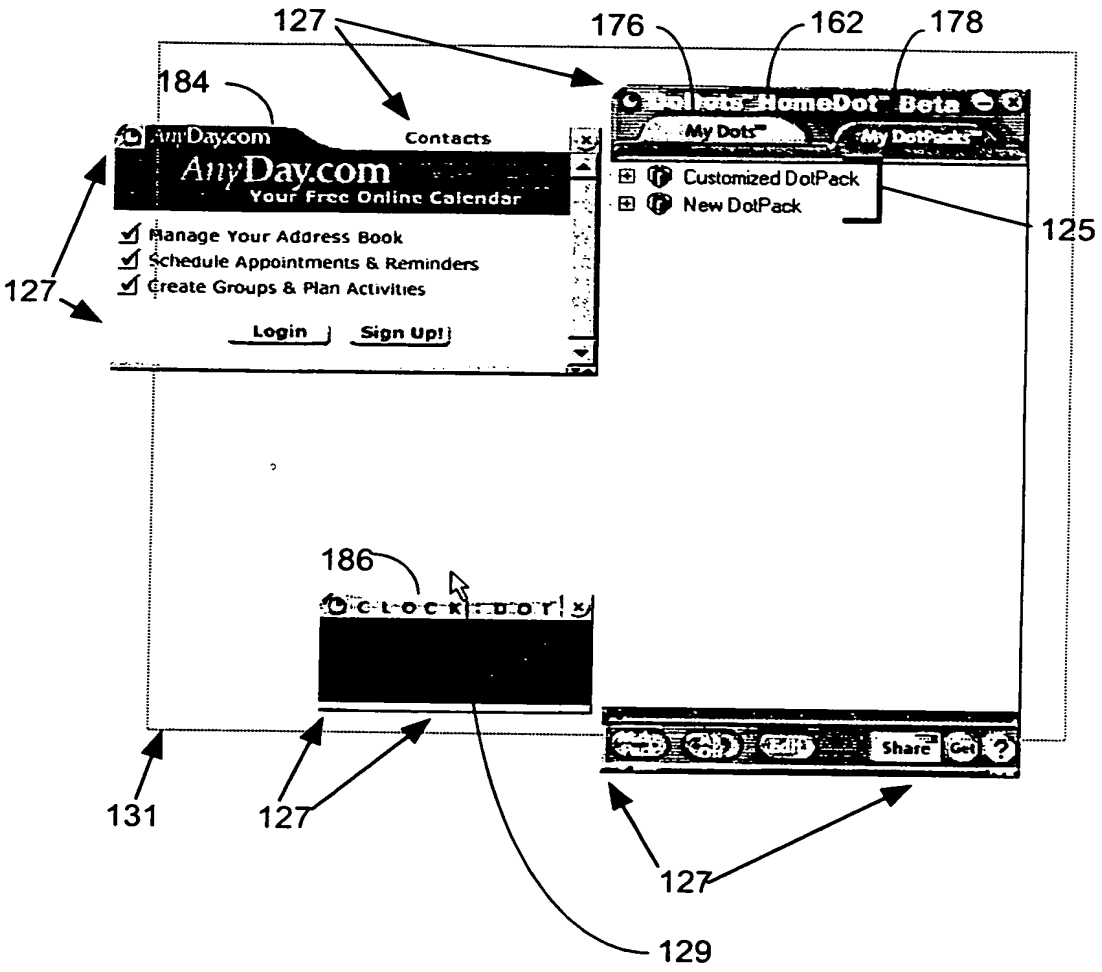
127
176
162
178
184
AnyDay.com
Contacts
AnyDay.com
Your Free Online Calendar
Manage Your Address Book
Schedule Appointments & Reminders
Create Groups & Plan Activities
Login
Sign Up!
127
DotLots HomeDot Beta
My Dots
My DotPacks
Customized DotPack
New DotPack
125
186
CLOCK DOT
Share
Get
131
127
127
129

FIG. 9A

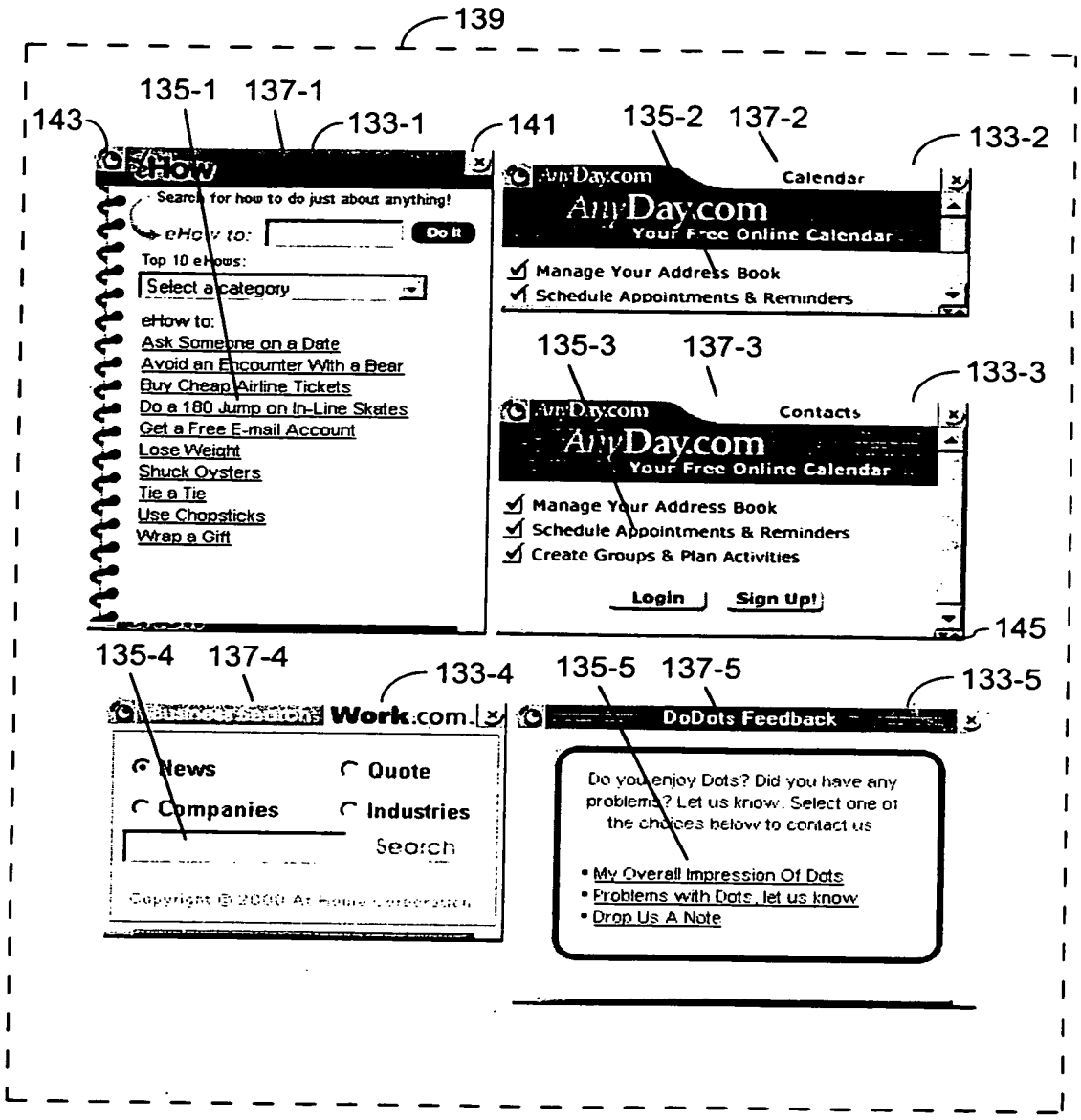
139
135-1
137-1
143
133-1
141
135-2
137-2
133-2
eHow
Search for how to do just about anything!
eHow to:
Do it
Top 10 eHows:
Select a category
eHow to:
Ask Someone on a Date
Avoid an Encounter With a Bear
Buy Cheap Airline Tickets
Do a 180 Jump on In-Line Skates
Get a Free E-mail Account
Lose Weight
Shuck Oysters
Tie a Tie
Use Chopsticks
Wrap a Gift
AnyDay.com
Calendar
AnyDay.com
Your Free Online Calendar
Manage Your Address Book
Schedule Appointments & Reminders
135-3
137-3
133-3
AnyDay.com
Contacts
AnyDay.com
Your Free Online Calendar
Manage Your Address Book
Schedule Appointments & Reminders
Create Groups & Plan Activities
Login
Sign Up!
145
135-4
137-4
133-4
Work.com
News
Quote
Companies
Industries
Search
135-5
137-5
133-5
DoDots Feedback
Do you enjoy Dots? Did you have any problems? Let us know. Select one of the choices below to contact us
My Overall Impression Of Dots
Problems with Dots, let us know
Drop Us A Note

FIG. 9B

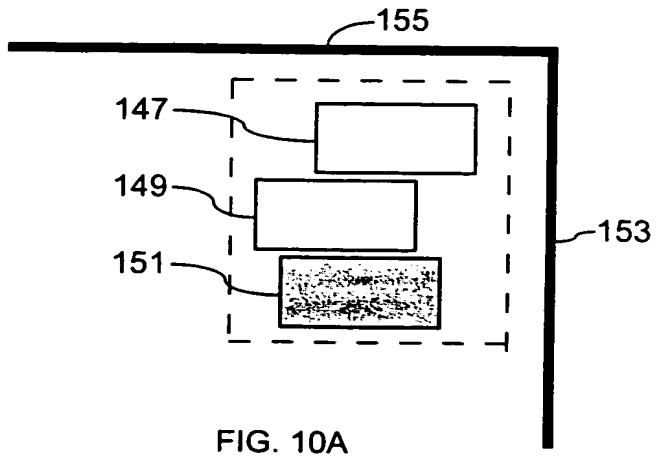

FIG. 10A

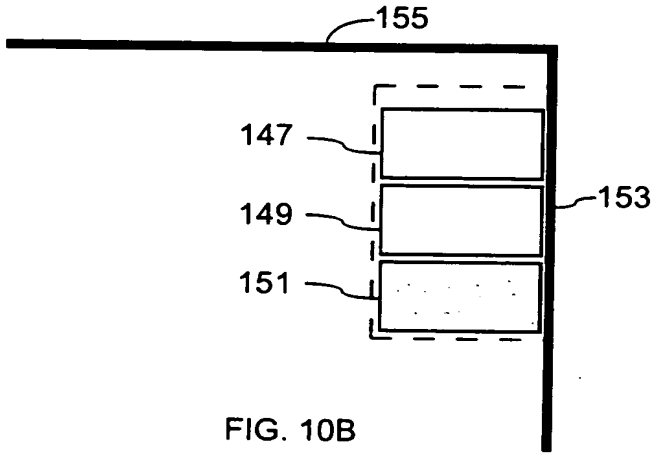

FIG. 10B

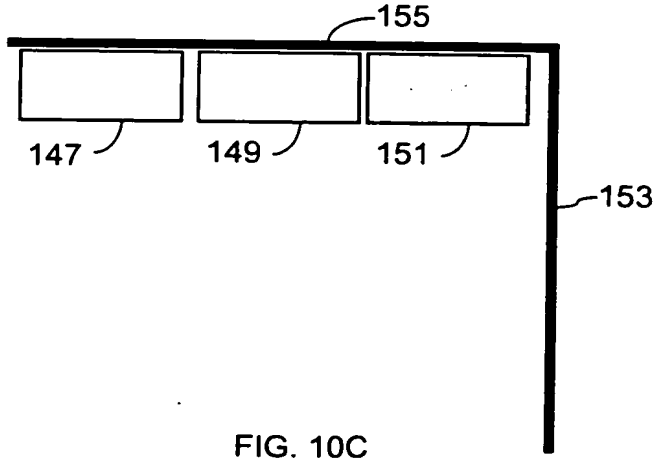

FIG. 10C

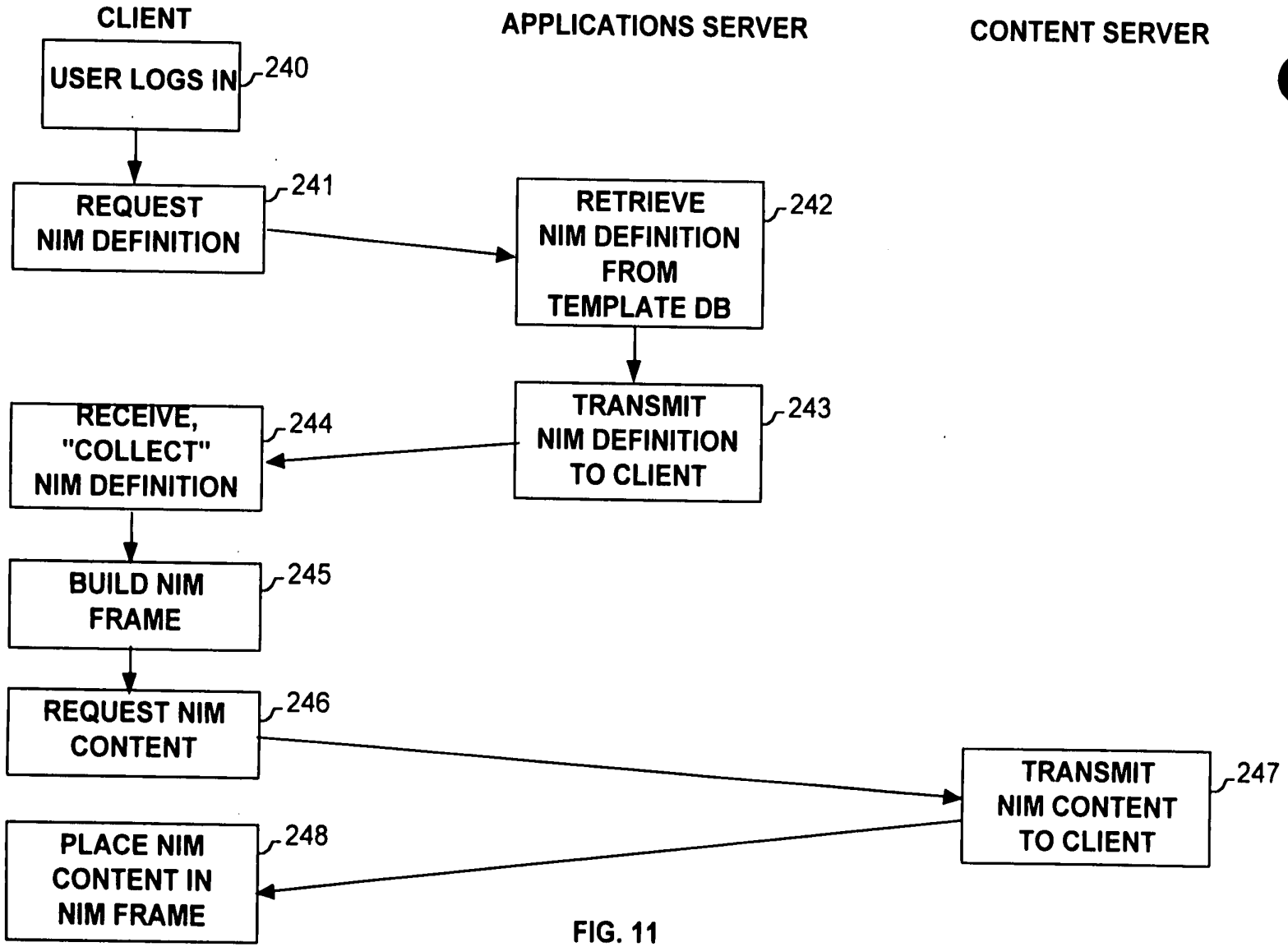
CLIENT
APPLICATIONS SERVER
CONTENT SERVER
USER LOGS IN
240
REQUEST NIM DEFINITION
241
RETRIEVE NIM DEFINITION FROM TEMPLATE DB
242
TRANSMIT NIM DEFINITION TO CLIENT
243
RECEIVE, "COLLECT" NIM DEFINITION
244
BUILD NIM FRAME
245
REQUEST NIM CONTENT
246
TRANSMIT NIM CONTENT TO CLIENT
247
PLACE NIM CONTENT IN NIM FRAME
248

FIG. 11

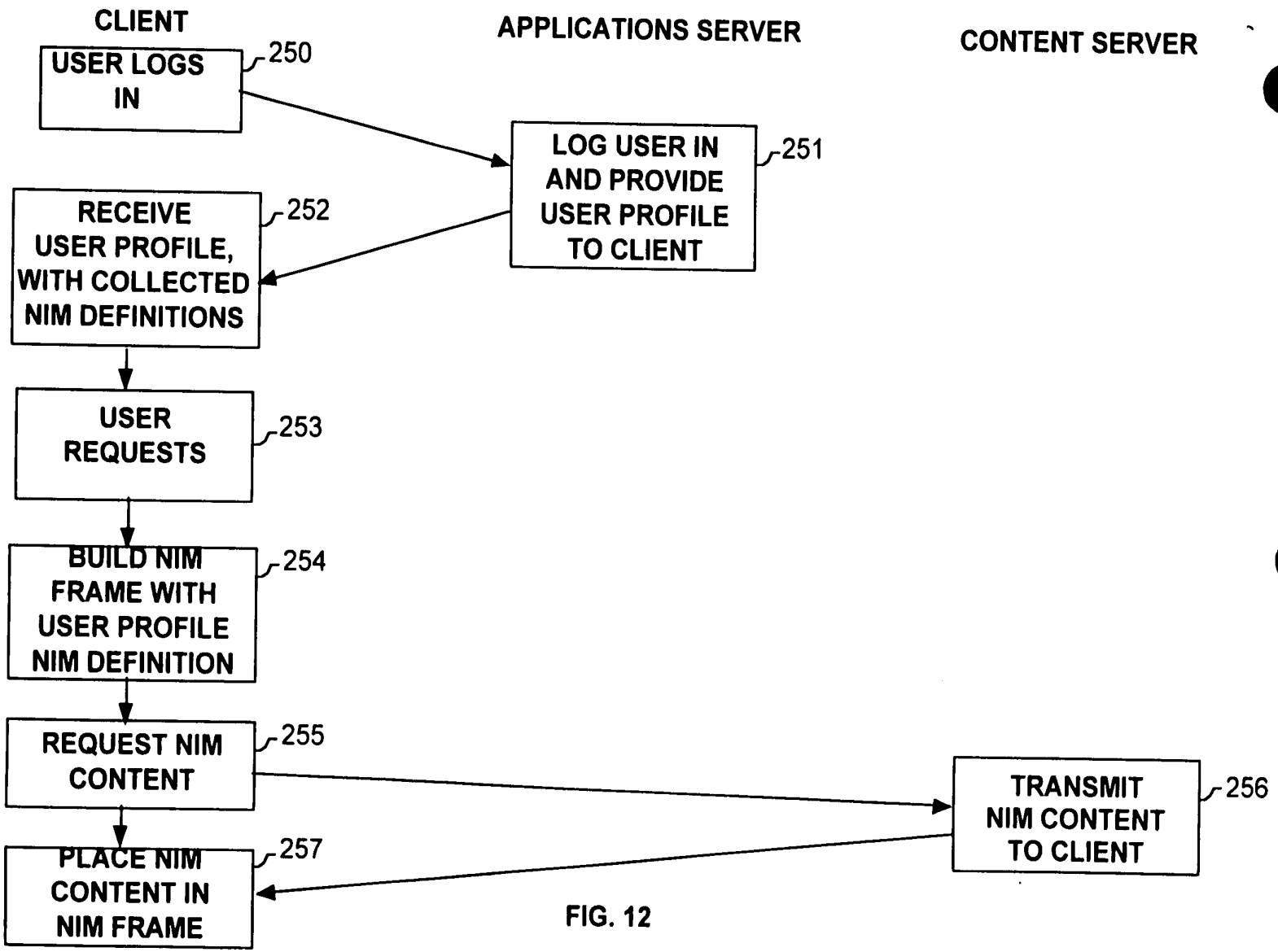
CLIENT
APPLICATIONS SERVER
CONTENT SERVER
USER LOGS IN
250
LOG USER IN AND PROVIDE USER PROFILE TO CLIENT
251
RECEIVE USER PROFILE, WITH COLLECTED NIM DEFINITIONS
252
USER REQUESTS
253
BUILD NIM FRAME WITH USER PROFILE NIM DEFINITION
254
REQUEST NIM CONTENT
255
TRANSMIT NIM CONTENT TO CLIENT
256
PLACE NIM CONTENT IN NIM FRAME
257

FIG. 12

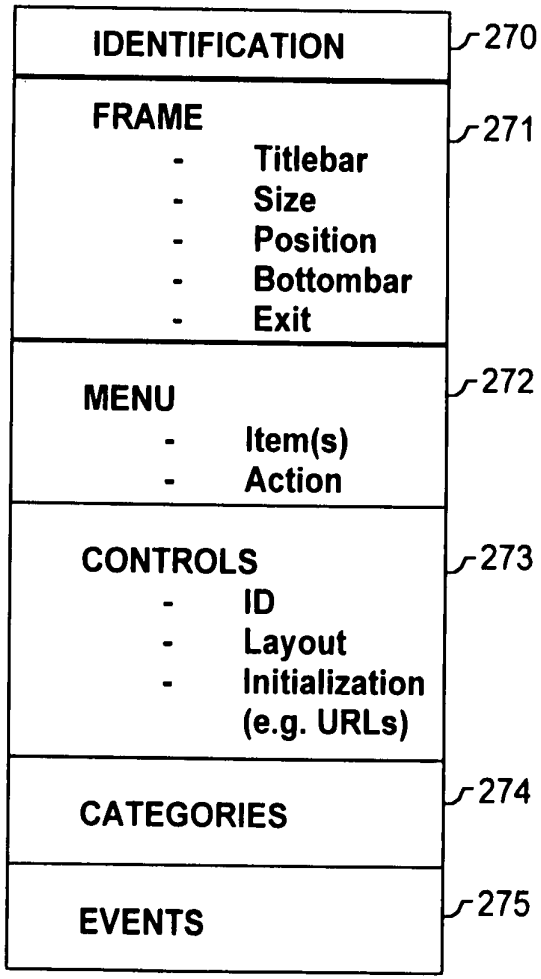
IDENTIFICATION
270
FRAME
- Titlebar
- Size
- Position
- Bottombar
- Exit
271
MENU
- Item(s)
- Action
272
CONTROLS
- ID
- Layout
- Initialization (e.g. URLs)
273
CATEGORIES
274
EVENTS
275

FIG. 13

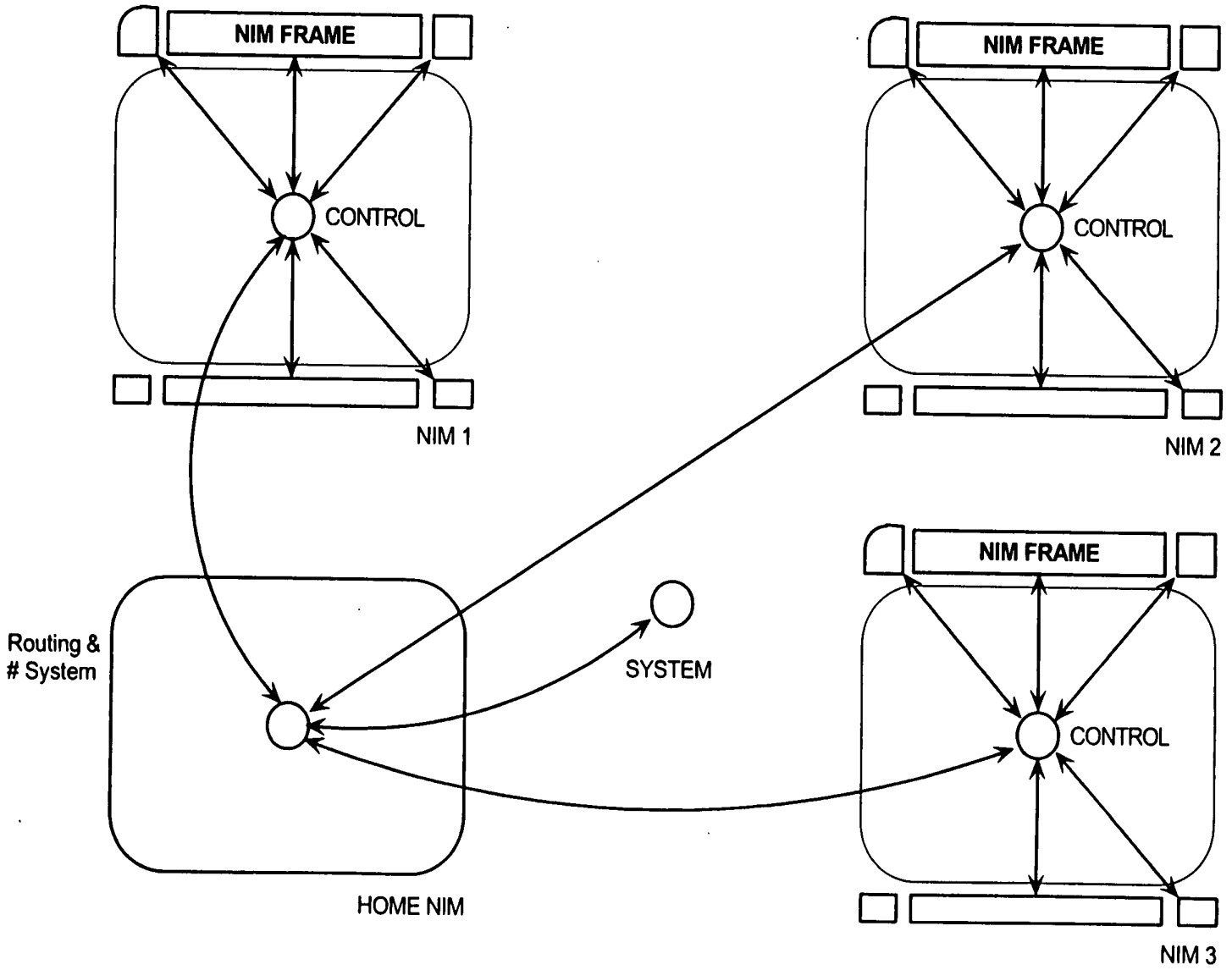
NIM FRAME
CONTROL
NIM 1
NIM FRAME
CONTROL
NIM 2
NIM FRAME
CONTROL
NIM 3
Routing &
System
SYSTEM
HOME NIM

FIG. 14

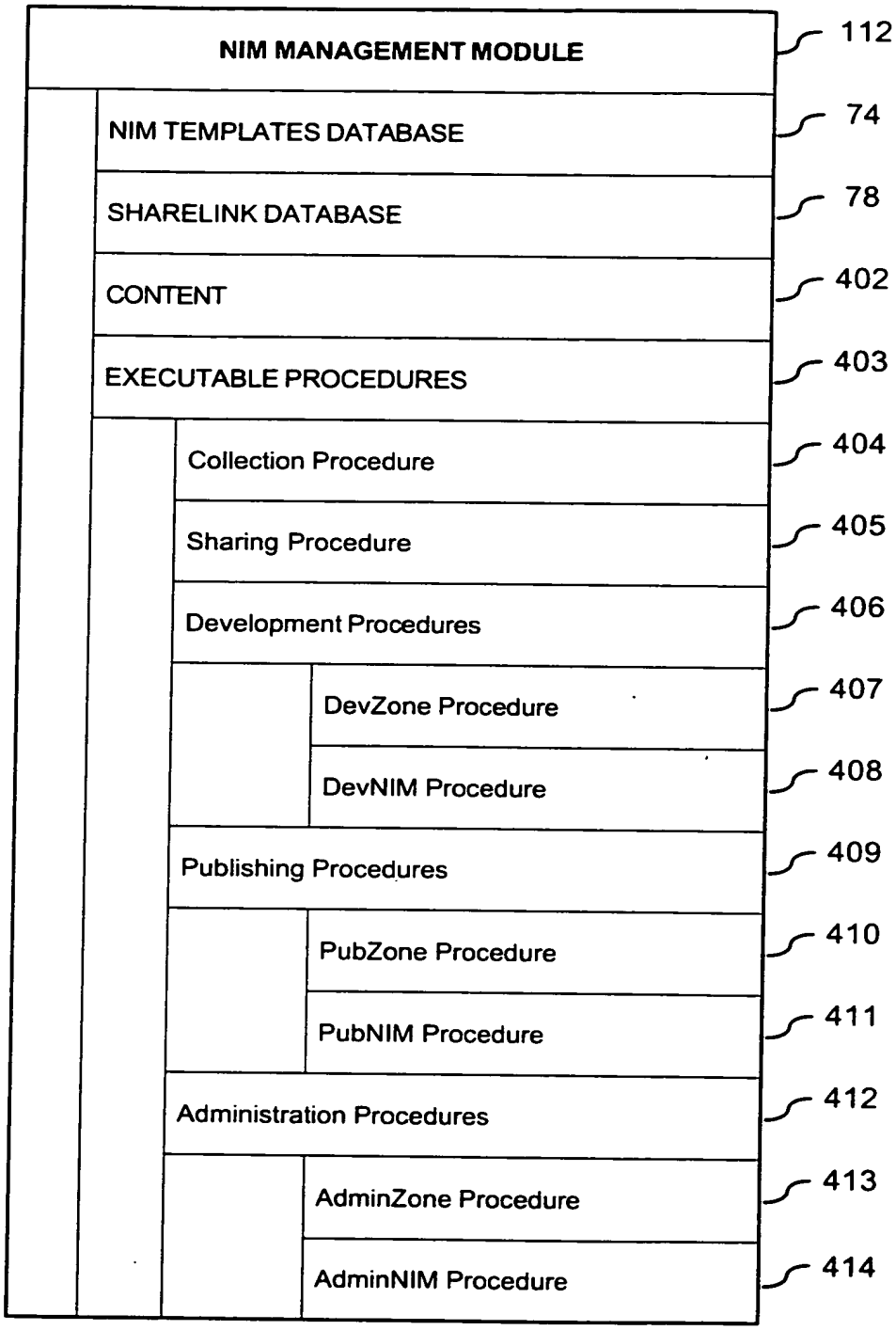
NIM MANAGEMENT MODULE
112
NIM TEMPLATES DATABASE
74
SHARELINK DATABASE
78
CONTENT
402
EXECUTABLE PROCEDURES
403
Collection Procedure
404
Sharing Procedure
405
Development Procedures
406
DevZone Procedure
407
DevNIM Procedure
408
Publishing Procedures
409
PubZone Procedure
410
PubNIM Procedure
411
Administration Procedures
412
AdminZone Procedure
413
AdminNIM Procedure
414

FIG. 15

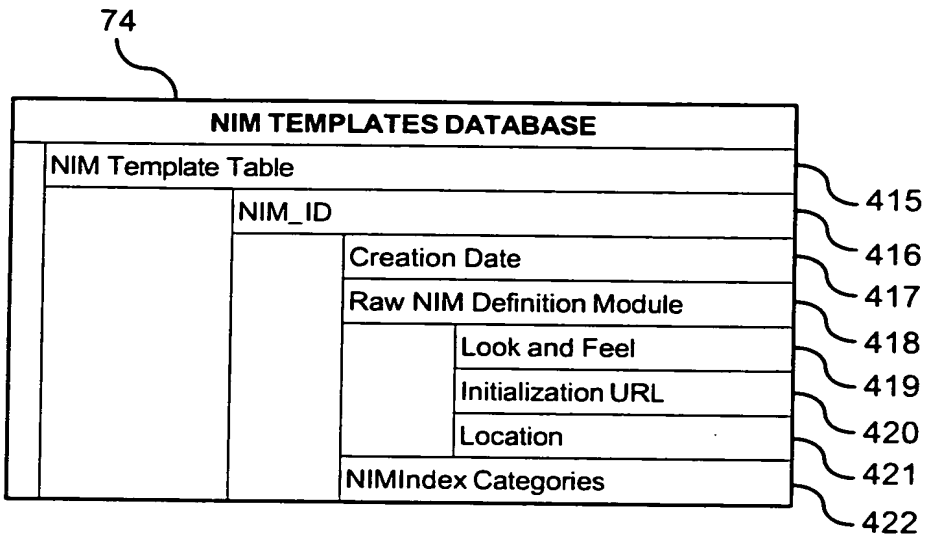
74
NIM TEMPLATES DATABASE
NIM Template Table
NIM_ID
Creation Date
Raw NIM Definition Module
Look and Feel
Initialization URL
Location
NIMIndex Categories
415
416
417
418
419
420
421
422

FIG. 16

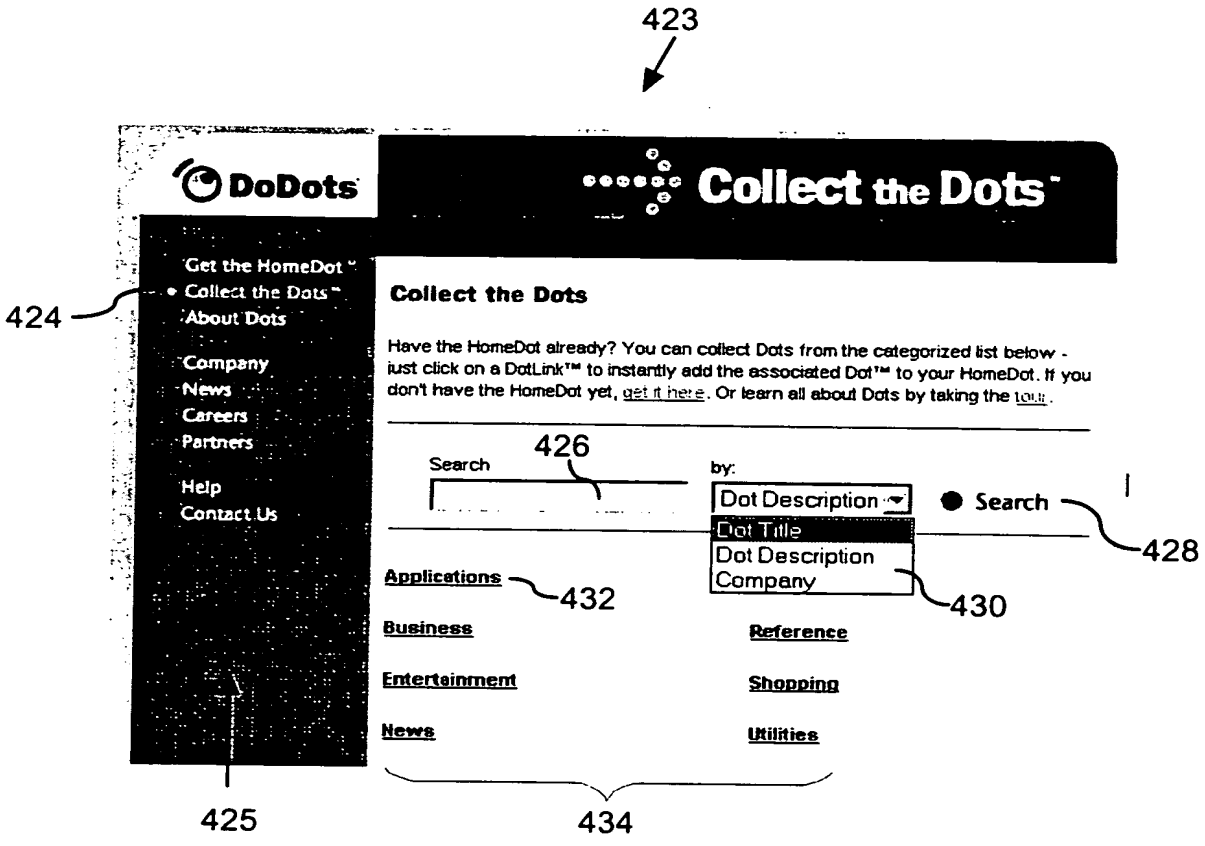
423
DoDots
Collect the Dots
Get the HomeDot
Collect the Dots
About Dots
Company
News
Careers
Partners
Help
Contact Us
424
Collect the Dots
Have the HomeDot already? You can collect Dots from the categorized list below - just click on a DotLink™ to instantly add the associated Dot™ to your HomeDot. If you don't have the HomeDot yet, get it here. Or learn all about Dots by taking the tour.
Search
426
by:
Dot Description
Search
Dot Title
Dot Description
Company
428
430
Applications
432
Business
Entertainment
News
Reference
Shopping
Utilities
425
434

FIG. 17

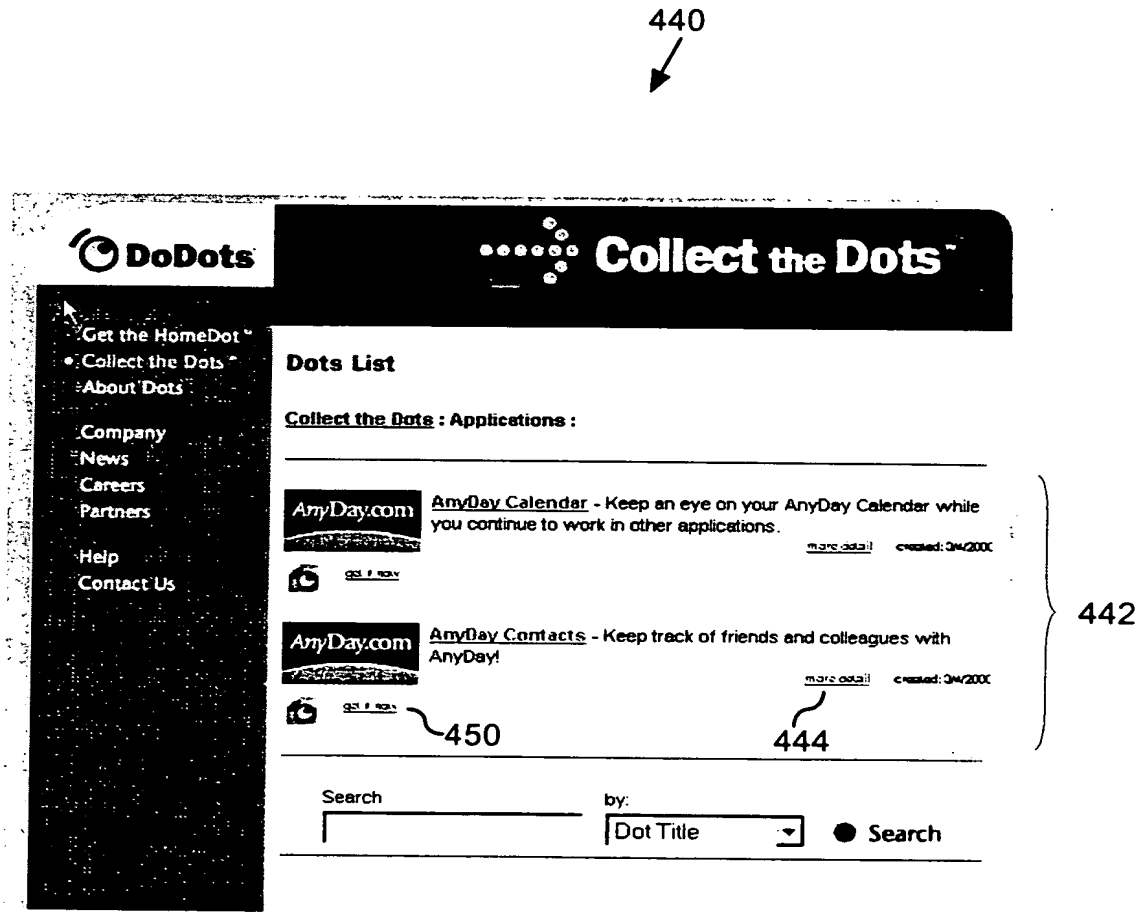
440
DoDots
Collect the Dots
Get the HomeDot
Collect the Dots
About Dots
Company
News
Careers
Partners
Help
Contact Us
Dots List
Collect the Dots : Applications :
AnyDay.com
AnyDay Calendar - Keep an eye on your AnyDay Calendar while you continue to work in other applications.
AnyDay.com
AnyDay Contacts - Keep track of friends and colleagues with AnyDay!
450
444
442
Search
by:
Dot Title
Search

FIG. 18

09150900 - 042500

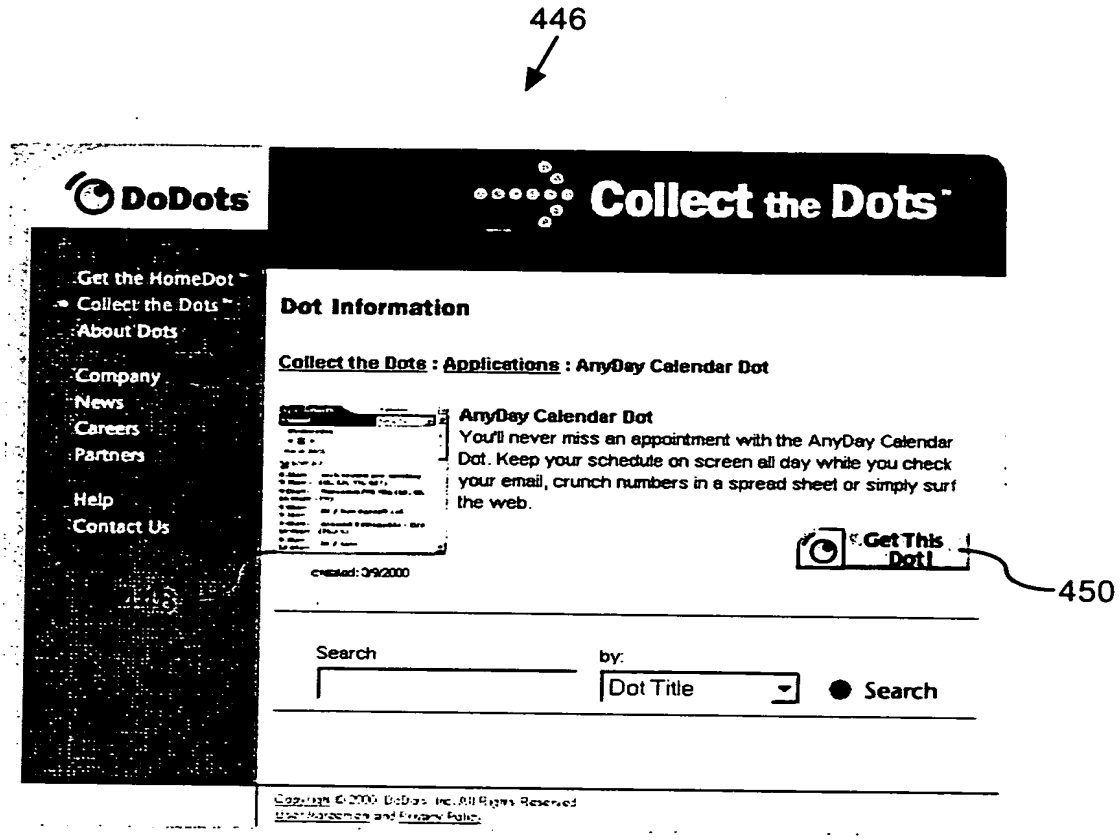

FIG. 19

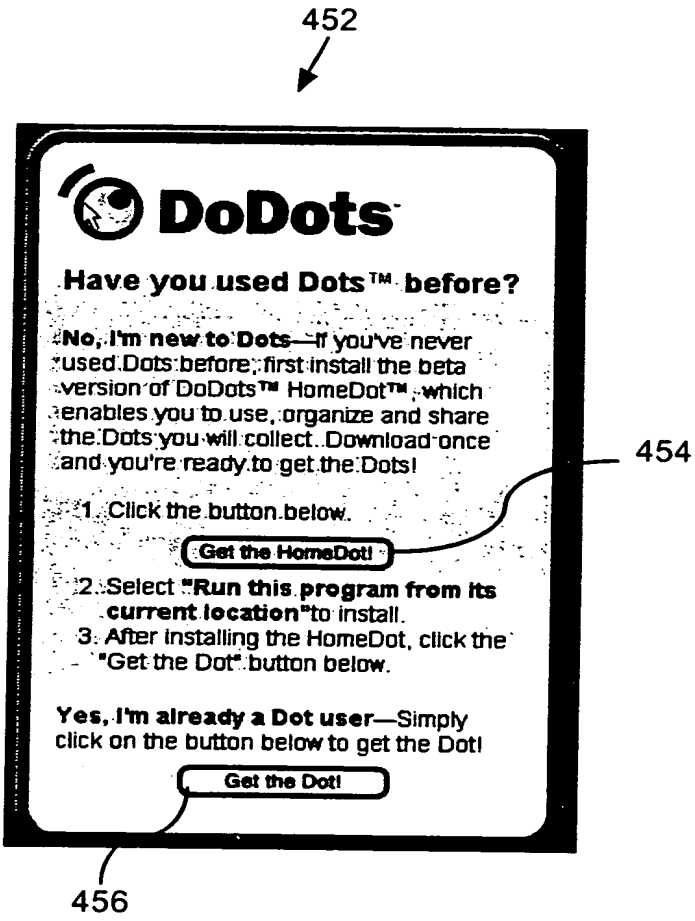

FIG. 20

09509605 : 062000

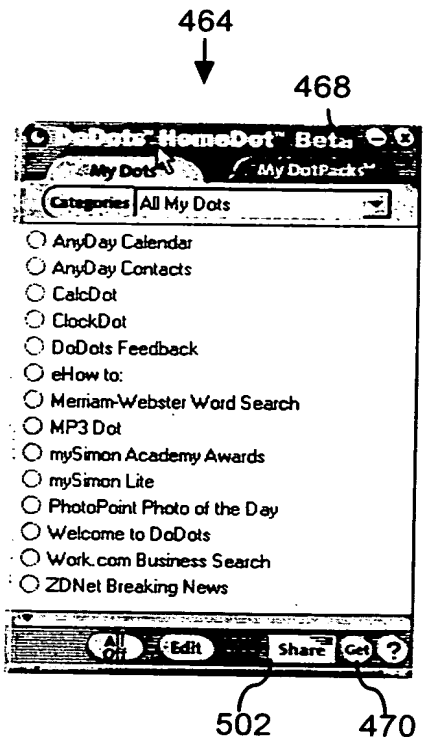

FIG. 21

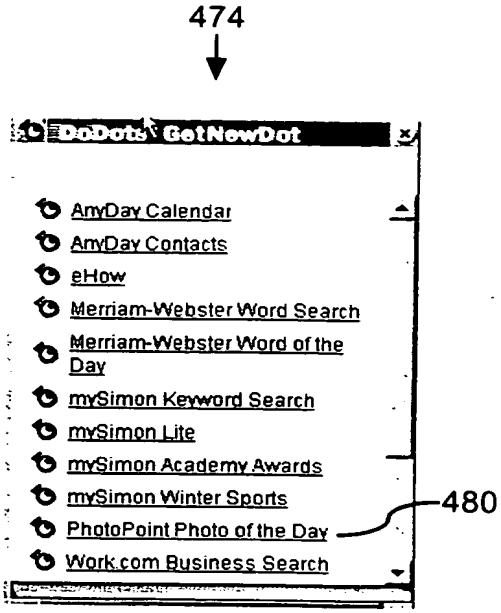

FIG. 22

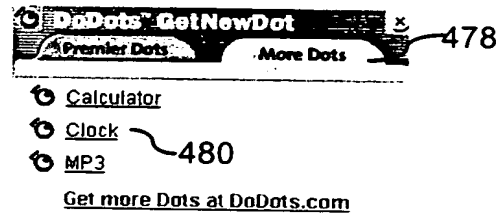

FIG. 23

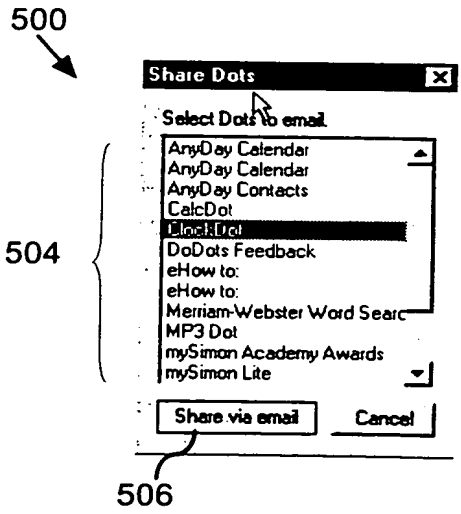

FIG. 25

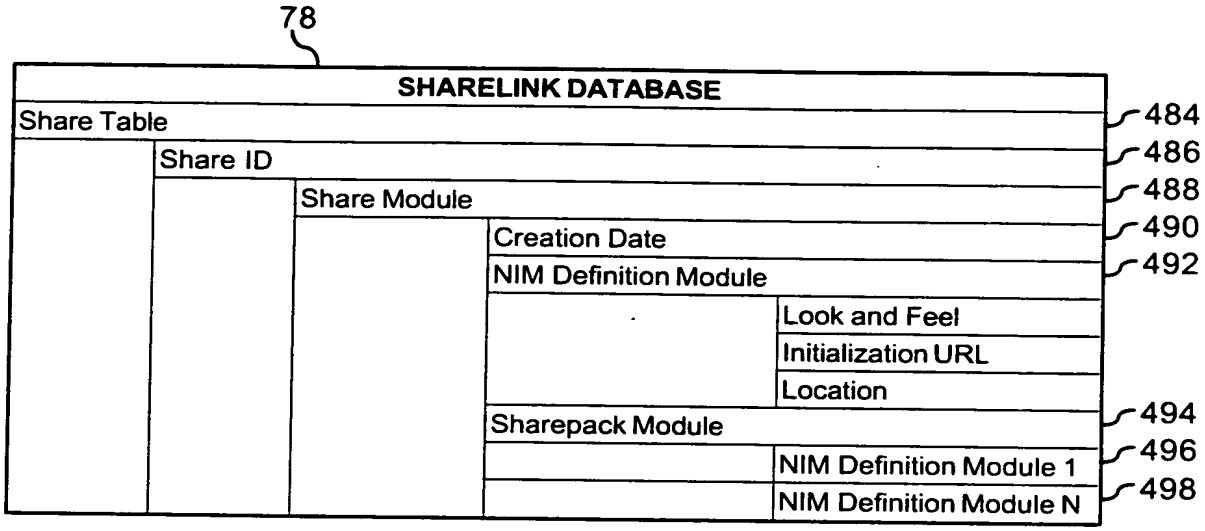
78
SHARELINK DATABASE
Share Table
Share ID
Share Module
Creation Date
NIM Definition Module
Look and Feel
Initialization URL
Location
Sharepack Module
NIM Definition Module 1
NIM Definition Module N
484
486
488
490
492
494
496
498

FIG. 24

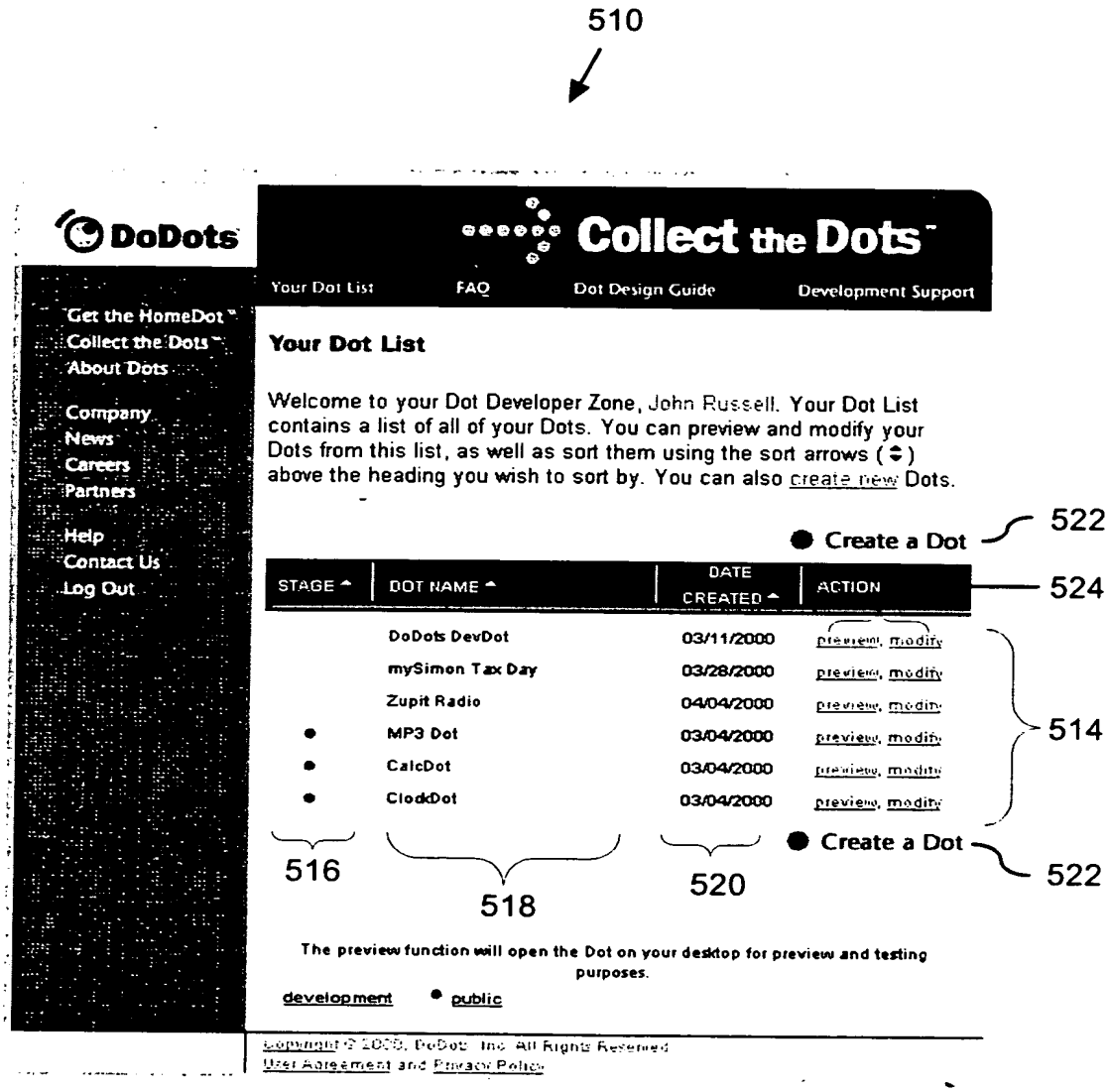
510
DoDots
Collect the Dots
Your Dot List
FAQ
Dot Design Guide
Development Support
Get the HomeDot
Collect the Dots
About Dots
Company
News
Careers
Partners
Help
Contact Us
Log Out
Your Dot List
Welcome to your Dot Developer Zone, John Russell. Your Dot List contains a list of all of your Dots. You can preview and modify your Dots from this list, as well as sort them using the sort arrows ( ) above the heading you wish to sort by. You can also create new Dots.
Create a Dot
522
STAGE
DOT NAME
DATE CREATED
ACTION
524
DoDots DevDot 03/11/2000 preview, modify
mySimon Tax Day 03/28/2000 preview, modify
Zupit Radio 04/04/2000 preview, modify
MP3 Dot 03/04/2000 preview, modify
CalcDot 03/04/2000 preview, modify
ClockDot 03/04/2000 preview, modify
514
Create a Dot
522
516
518
520
The preview function will open the Dot on your desktop for preview and testing purposes.
development
public
Copyright © 2000, DoDots Inc. All Rights Reserved
User Agreement and Privacy Policy

FIG. 26

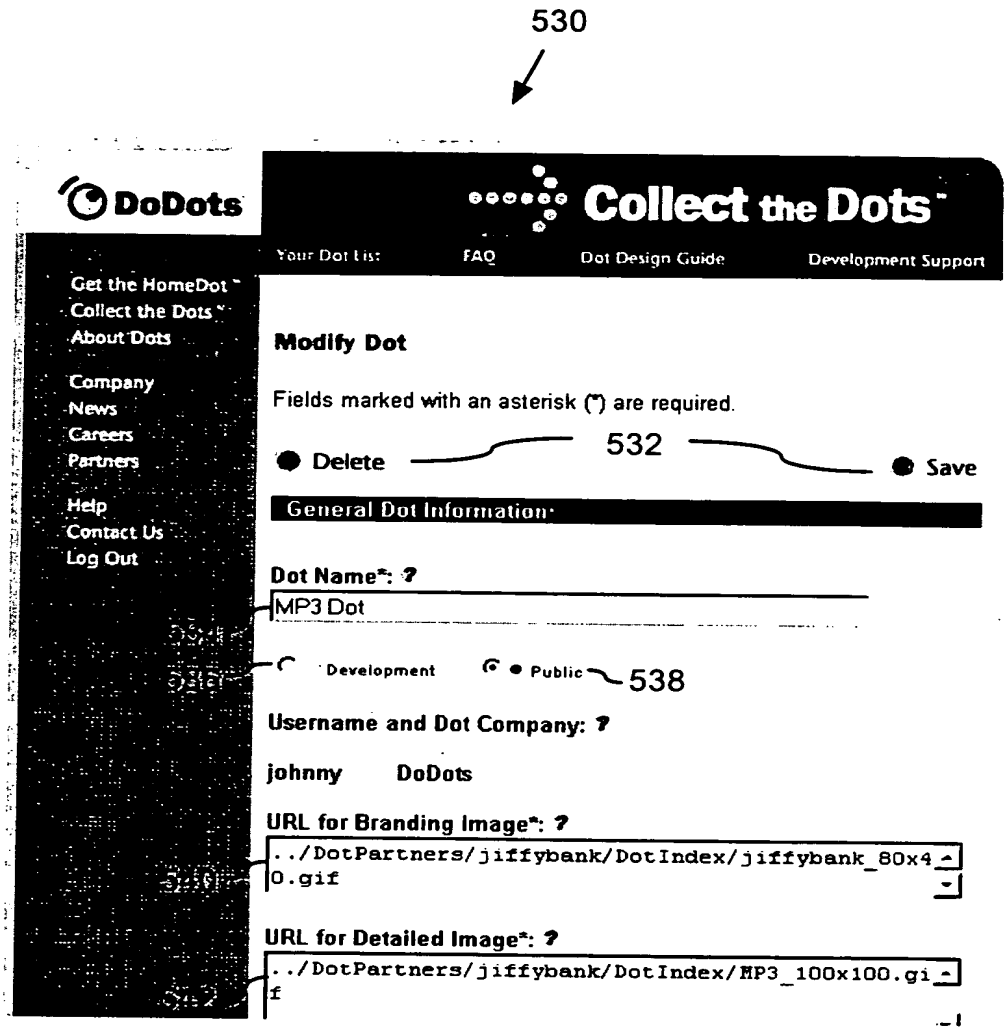
530
DoDots
Collect the Dots
Your Dot List:
FAQ
Dot Design Guide
Development Support
Get the HomeDot
Collect the Dots
About Dots
Company
News
Careers
Partners
Help
Contact Us
Log Out
Modify Dot
Fields marked with an asterisk (*) are required.
Delete
532
Save
General Dot Information
Dot Name*: ?
MP3 Dot
Development
Public
538
Username and Dot Company: ?
johnny
DoDots
URL for Branding Image*: ?
../DotPartners/jiffybank/DotIndex/jiffybank_80x40.gif
URL for Detailed Image*: ?
../DotPartners/jiffybank/DotIndex/MP3_100x100.gif

FIG. 27

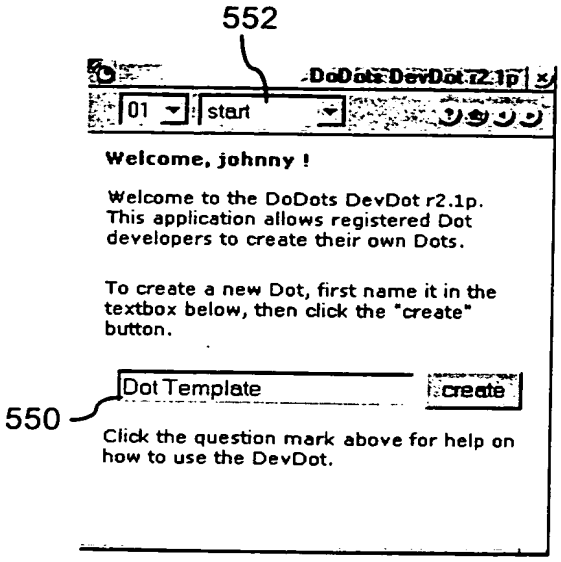

FIG. 28A

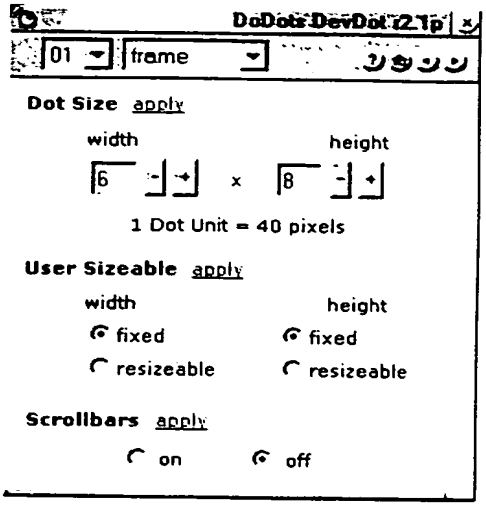

FIG. 28B

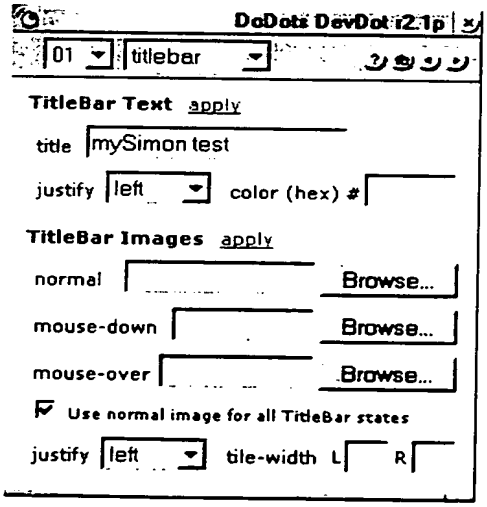

FIG. 28C

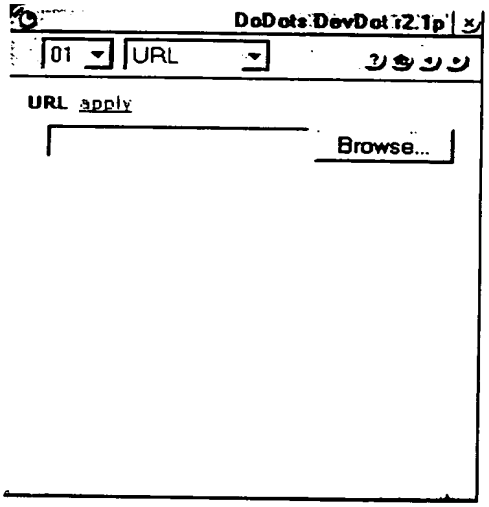

FIG. 28D

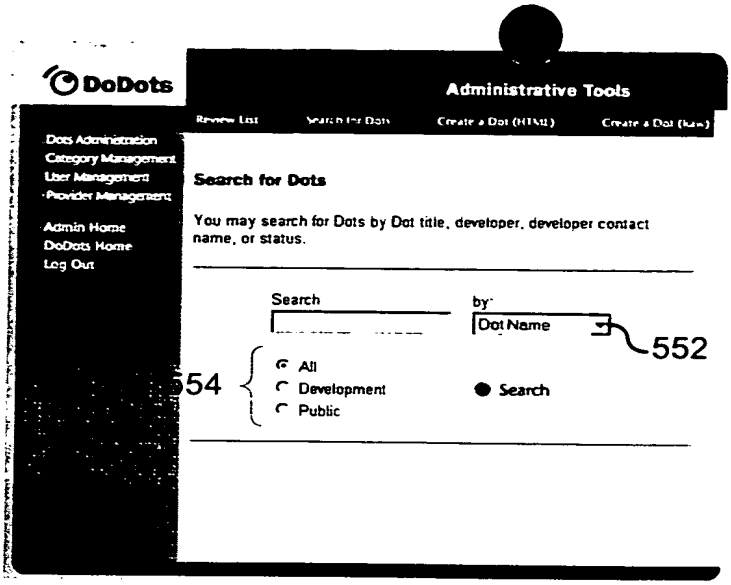

FIG. 29A

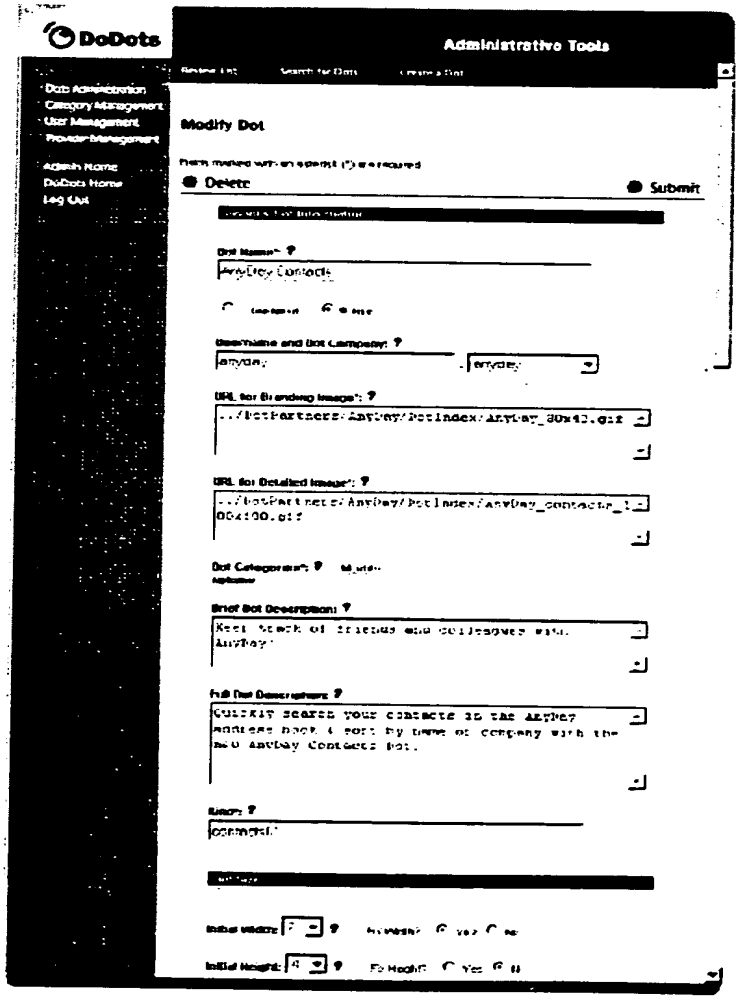

FIG. 29B

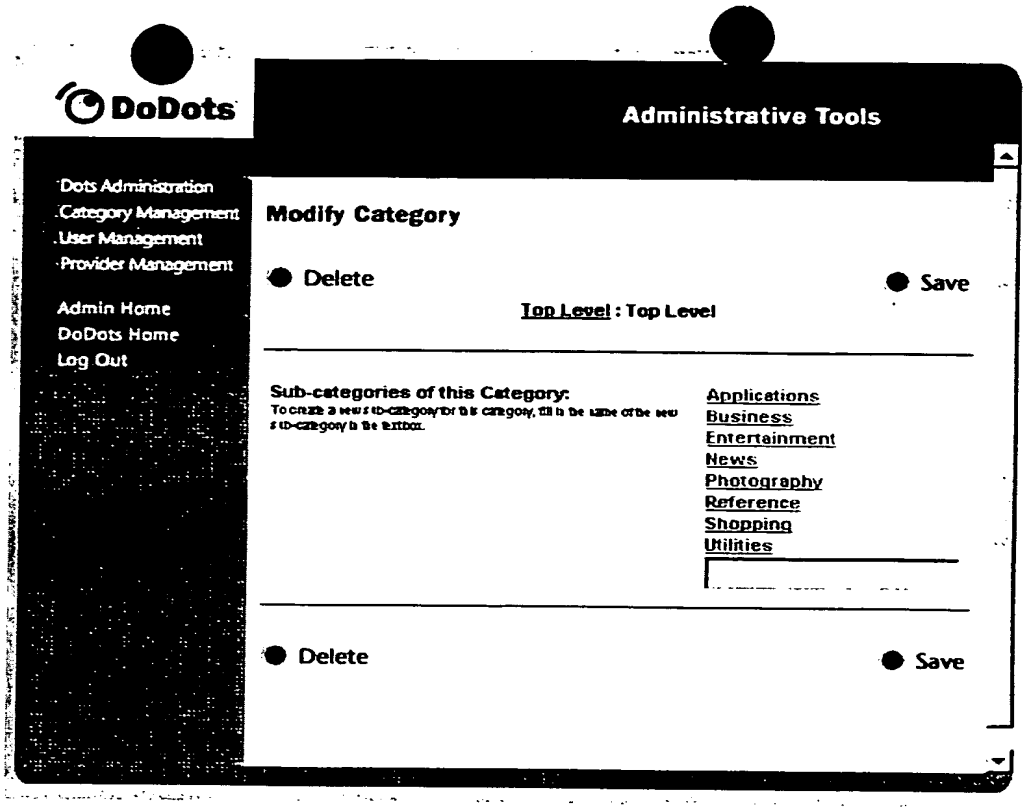

FIG. 30A

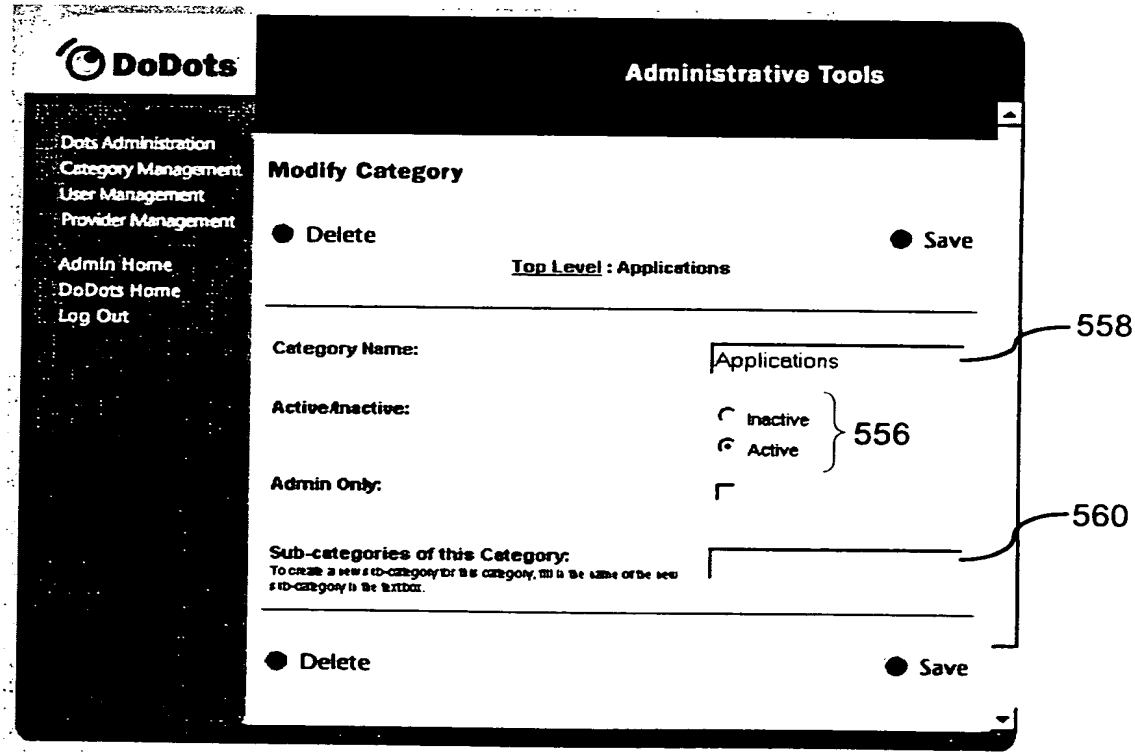

FIG. 30B

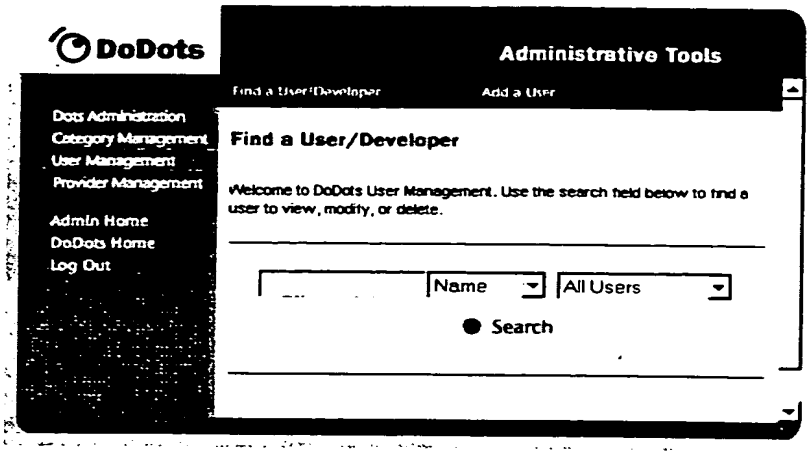

FIG. 31A

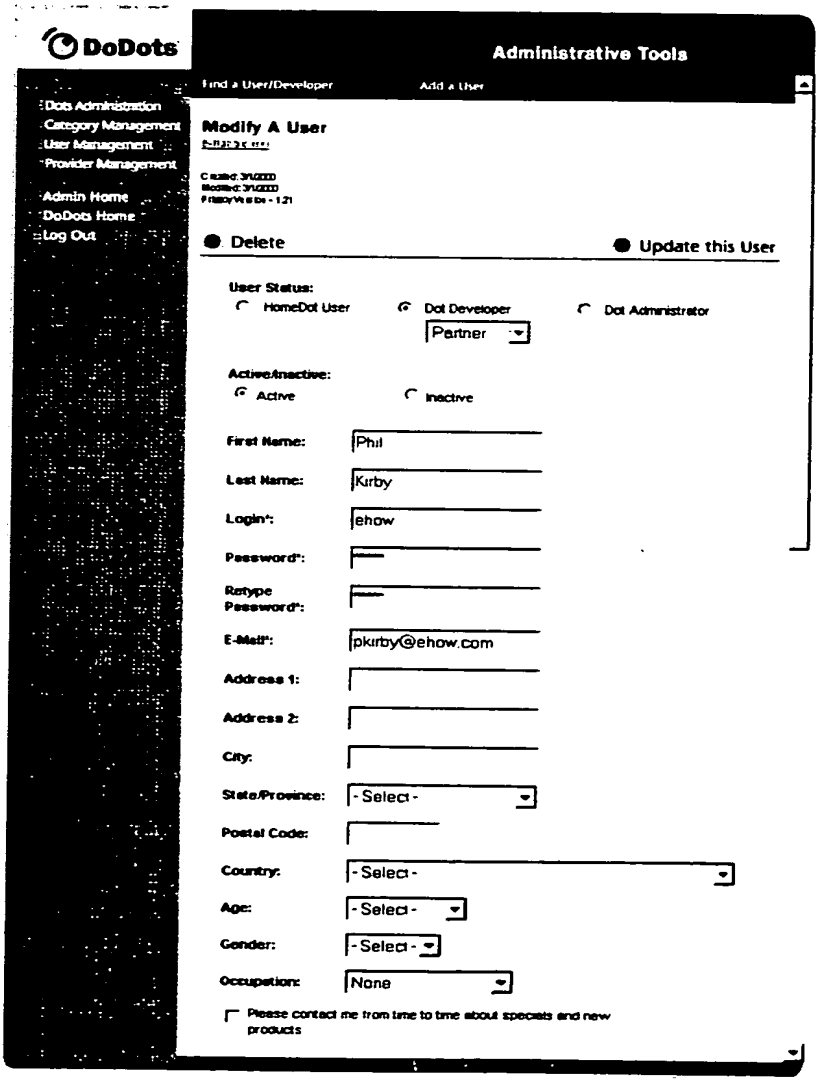

FIG. 31B

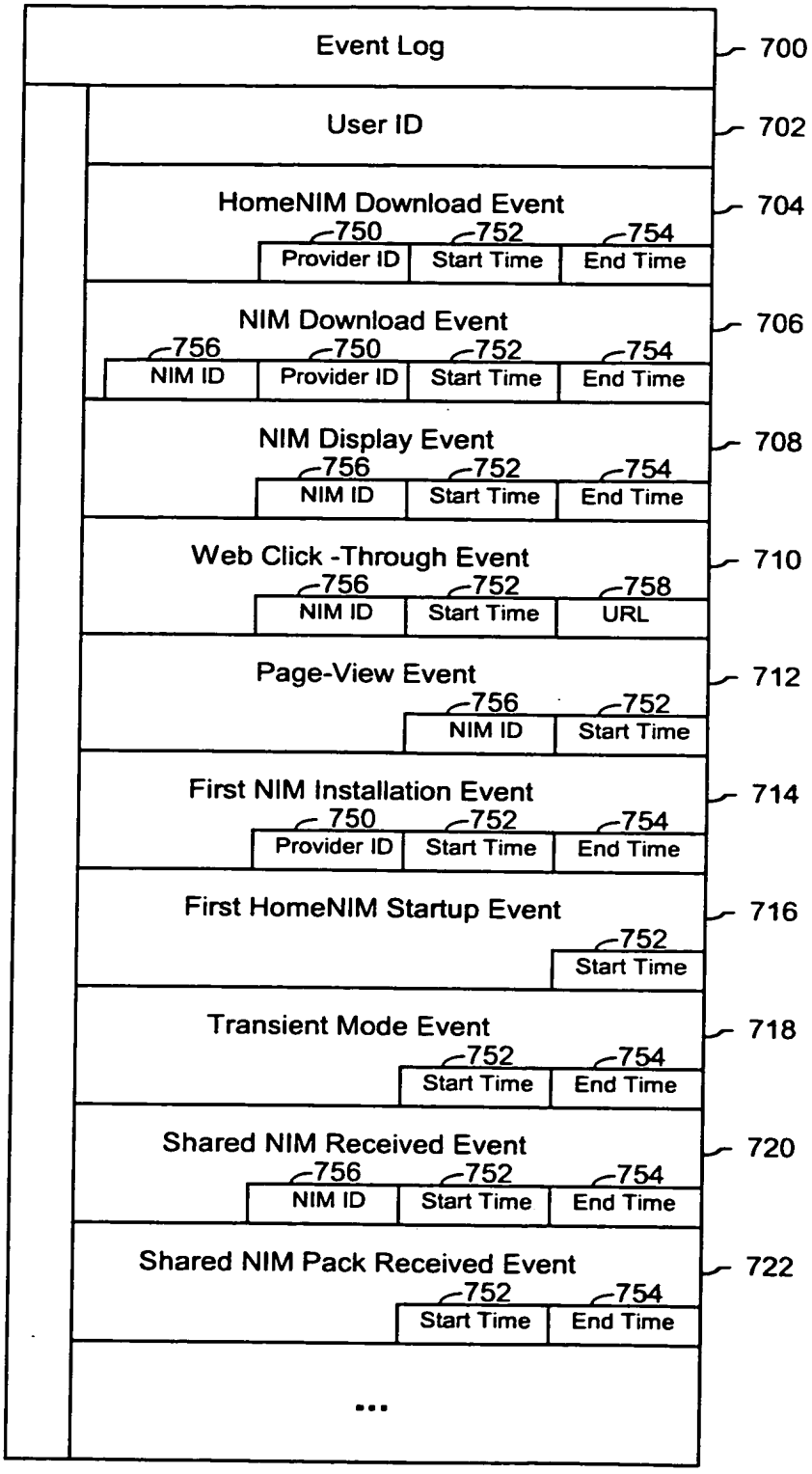
Event Log
700
User ID
702
HomeNIM Download Event
704
750
752
754
Provider ID
Start Time
End Time
NIM Download Event
706
756
750
752
754
NIM ID
Provider ID
Start Time
End Time
NIM Display Event
708
756
752
754
NIM ID
Start Time
End Time
Web Click -Through Event
710
756
752
758
NIM ID
Start Time
URL
Page-View Event
712
756
752
NIM ID
Start Time
First NIM Installation Event
714
750
752
754
Provider ID
Start Time
End Time
First HomeNIM Startup Event
716
752
Start Time
Transient Mode Event
718
752
754
Start Time
End Time
Shared NIM Received Event
720
756
752
754
NIM ID
Start Time
End Time
Shared NIM Pack Received Event
722
752
754
Start Time
End Time
...

FIG. 32

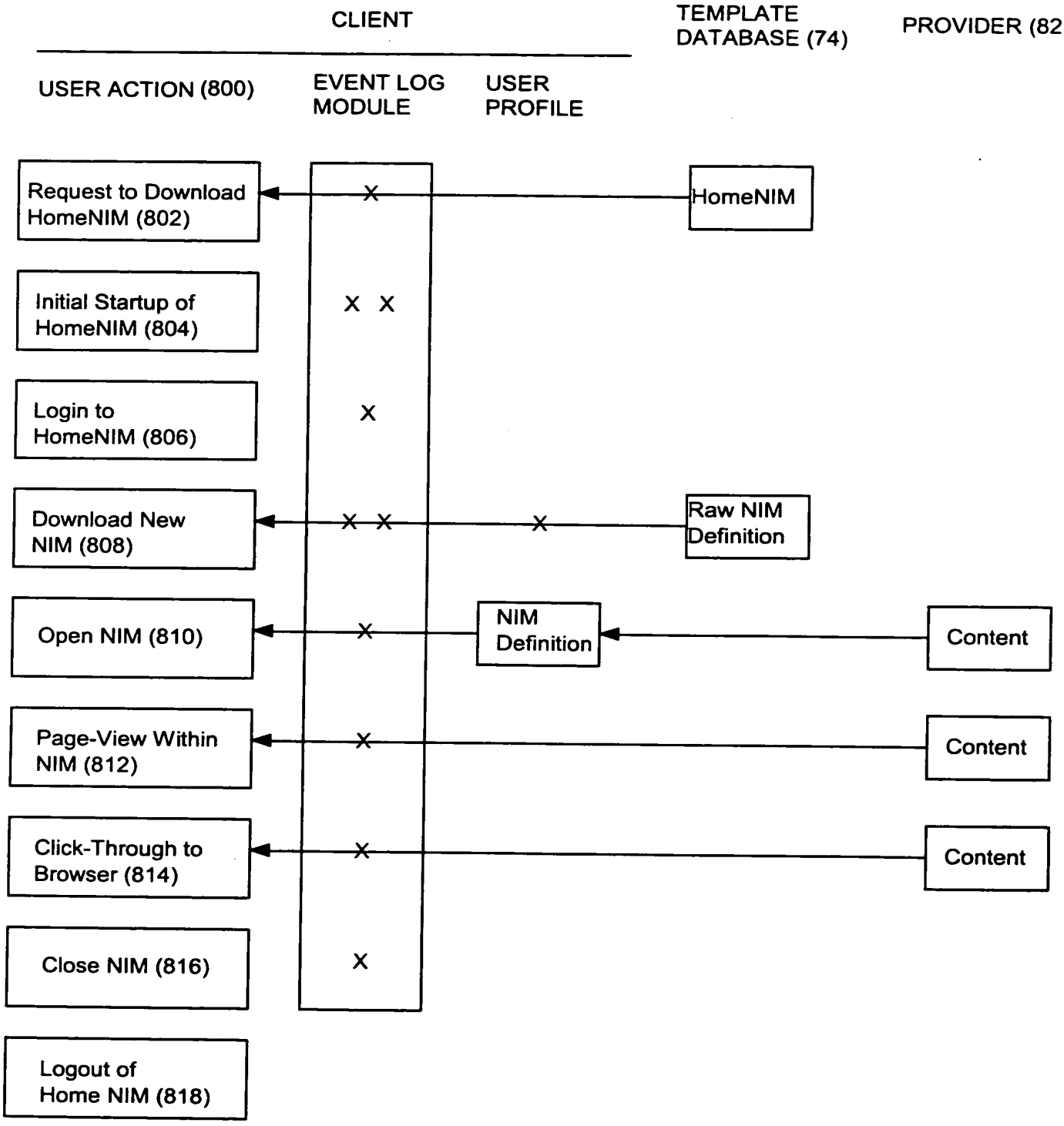
CLIENT
TEMPLATE DATABASE (74)
PROVIDER (82)
USER ACTION (800)
EVENT LOG MODULE
USER PROFILE
Request to Download HomeNIM (802)
Initial Startup of HomeNIM (804)
Login to HomeNIM (806)
Download New NIM (808)
Open NIM (810)
Page-View Within NIM (812)
Click-Through to Browser (814)
Close NIM (816)
Logout of Home NIM (818)
HomeNIM
Raw NIM Definition
NIM Definition
Content
Content
Content

FIG. 33

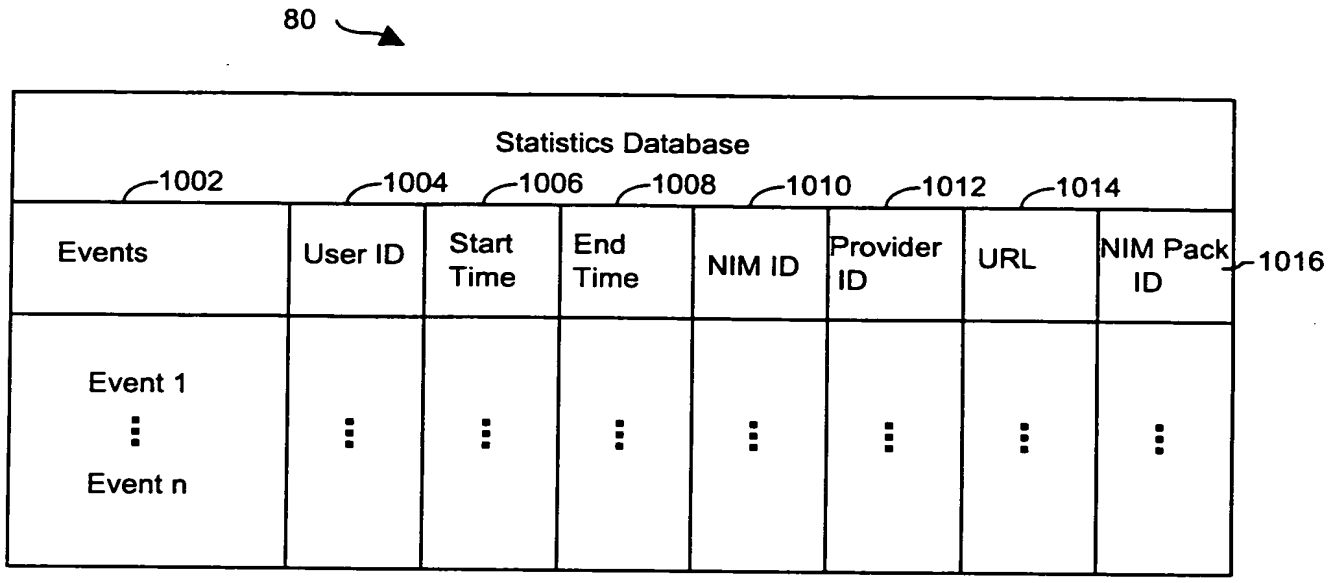
80
Statistics Database
1002
1004
1006
1008
1010
1012
1014
Events
User ID
Start Time
End Time
NIM ID
Provider ID
URL
NIM Pack ID
1016
Event 1
Event n

FIG. 34

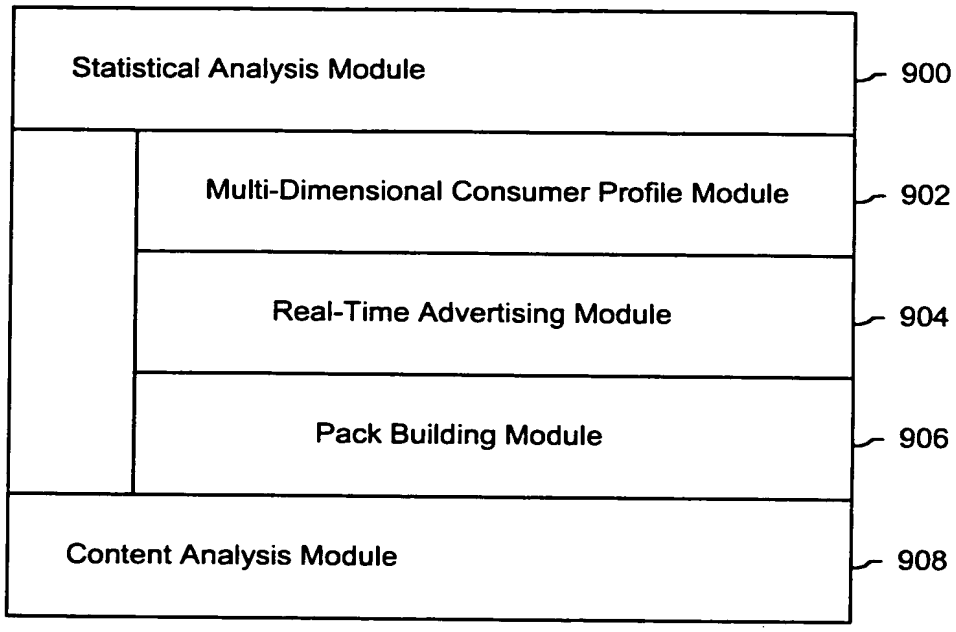
Statistical Analysis Module
900
Multi-Dimensional Consumer Profile Module
902
Real-Time Advertising Module
904
Pack Building Module
906
Content Analysis Module
908

FIG. 35

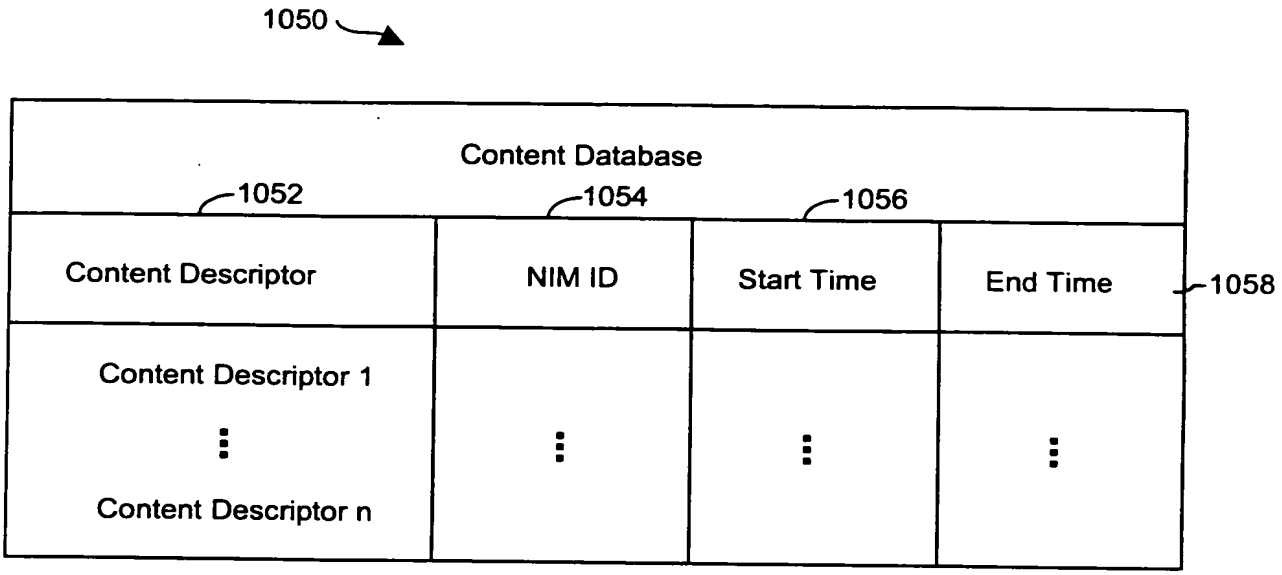
1050
Content Database
1052
1054
1056
Content Descriptor
NIM ID
Start Time
End Time
1058
Content Descriptor 1
Content Descriptor n

FIG. 36

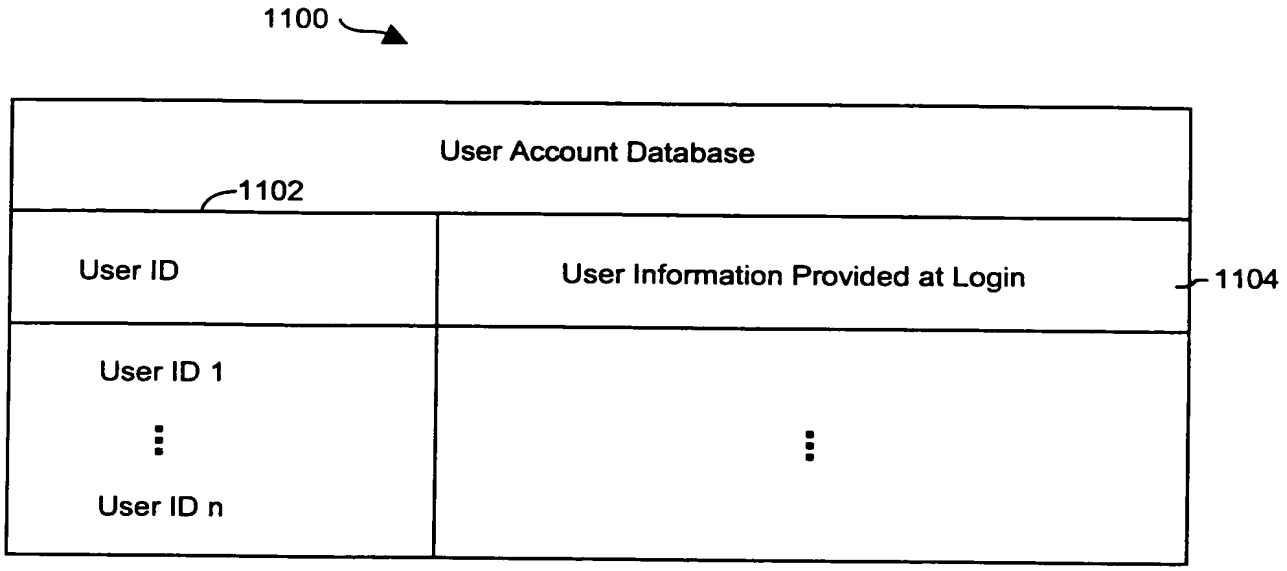
1100
User Account Database
1102
User ID
User Information Provided at Login
1104
User ID 1
User ID n

FIG. 37